



THE HOUSE THAT'S CLOSE TO YOU

McLaughlin

ELECTRIC SUPPLY HOUSE

ABERDEEN, SOUTH DAKOTA

PHONE : 4911

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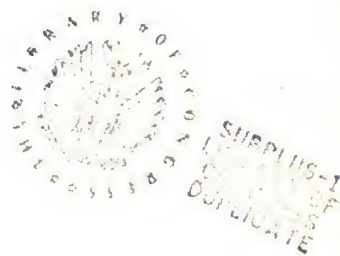
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Mike Jackson, FAIA





"THE HOUSE THAT'S CLOSE TO YOU"

McLaughlin

ELECTRIC SUPPLY HOUSE

14-16 SECOND AVE., S. E.

ABERDEEN, SOUTH DAKOTA

PHONE 4911

Wholesale Electrical Supplies



Traffic Appliances



Lighting Fixtures

General Information

In compiling this Catalog, we have endeavored to make it a complete and up-to-date sales reference book of electrical supplies, illustrating and describing material for which there is an active demand. Special catalogs, bulletins and prices can be furnished upon request, covering supplies not fully described, or shown in this catalog.

LIST PRICES

The list prices in this catalog are not guaranteed but agree with latest correct list prices at time of issue. They are not offered as quotations, and are subject to market changes without notice. All local, state or federal taxes of any nature must be added to the prices quoted unless they are already included.

TERMS

To parties of approved credit, net thirty days, subject to standard cash discounts. Unless your standing is known to us or you have a rating with the Commercial Agencies, we recommend that you accompany your first order with references to avoid delay in looking up your credit. C.O.D. orders must be accompanied by a remittance sufficient to pay express or freight charges both ways to insure us against loss should shipment be refused.

ORDERS

When ordering always use manufacturer's name and catalog numbers, and give name of article. Orders should be kept separate from all other correspondence if included in the body of a letter, both the order and the reply to the letter may be delayed.

ROUTING SHIPMENTS

Customers should send shipping instructions with all orders; but if this is not done, we will use our own judgment in selecting route.

LOSS AND DAMAGE IN TRANSIT

We do not hold ourselves responsible for any loss or damage sustained in transit, and claims of such character should be made promptly against carrier; but if we are notified of such claims, we will gladly lend our assistance to secure adjustment. We employ experienced packers and cannot be held responsible for breakage that occurs after we have obtained good order receipt from transportation companies.

SHORTAGE

All shipments are double checked, to prevent errors and shortages. Claims for shortages must be made to us promptly.

REELS

Reels are always charged; credit, however, will be allowed for full amount when returned to the factory in good order, by freight, within one year from date of invoice. Always remit for reels at time invoice covering wire is paid. When ready to return reels, write us for shipping instructions. We promptly remit for reels as soon as received and checked at original shipping point.

RETURNING GOODS

No goods should be returned for credit or exchange without first obtaining permission. We stand ready at all times to rectify any mistake that we make, and without the least cost to our customers, but, under no circumstances, should goods be returned without first consulting us for shipping instructions. We will not receive goods returned without our authorization.

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NATIONAL ELECTRIC ELECTRICAL METALLIC TUBING

XDUCT JR.—ELECTRO GALVANIZED FINISH

Easy Fishing—Permanent Protection



XDUCT Jr. is a light-wall conduit, rust-proofed and acid-proofed through exacting control in the electro-galvanizing process. The inside is then further protected by a complete covering of clear enamel that will not crack or break down.

TUBING

Size, In.	Diameter, Inches		Feet Per Bundle	Approx. Wt. Per M Ft.
	Internal	External		
1/2	.622	.706	100	321
3/4	.824	.922	100	488
1	1.049	1.163	100	711
1 1/4	1.380	1.510	50	1000
1 1/2	1.610	1.740	50	1180
2	2.067	2.197	30	1500

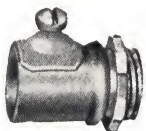
ELBOWS

Size, In.	Diameter, Inches		Radius, Inches	Offset, Inches	Wt. Per 100 in Lbs.
	Internal	External			
1	1.049	1.165	5.750	8.625	100
1 1/4	1.380	1.508	7.250	10.000	144
1 1/2	1.610	1.738	8.250	11.000	180
2	2.067	2.195	9.500	13.625	277

NATIONAL ELECTRIC E.M.T. FITTINGS

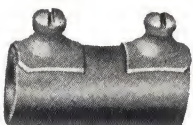
CONNECTORS AND COUPLINGS

Fittings that are easy to install in corners, in close quarters — only a screwdriver is needed. Tip of screw embeds itself in tubing wall for a permanent vibration proof bond. Electro-galvanized rustproof finish.



Connectors

Cat. No.	Size In.	Std. Pkg.	Unit Pkg.	Wt. Lbs. Per 100
9102-X	1/2	200	50	11
9103-X	3/4	100	50	12



Couplings

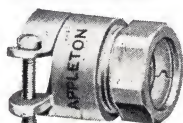
Cat. No.	Size In.	Std. Pkg.	Unit Pkg.	Wt. Lbs. Per 100
9202-X	1/2	200	50	14
9203-X	3/4	100	50	15

APPLETON CONDUIT FITTINGS

Cadmium Finish

COMBINATION NO-THREAD COUPLINGS

For Connecting Flexible Steel Conduit to Electrical Metallic Tubing.



Cat. No.	Size In.	Designed to Hold	Max. Dia. Hole	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.
TW-18854	1/2	3/8" Flex.	-----	10	50	9
TW-18855	1/2	1/2" Flex.	1 1/8	10	50	10
TW-18856	3/4	3/4" Flex.	1 1/8	10	50	14

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Electrical Metallic Tubing (Thin-Wall Conduit)

ADAPTERS



Adapter

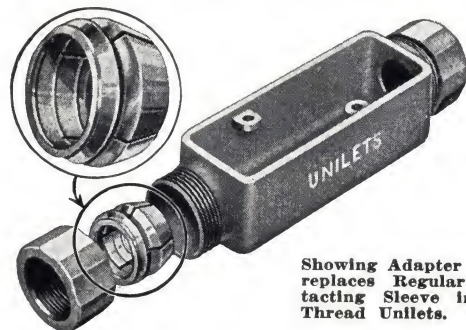


Type "C" Rectangular Threaded Unilet with No-Thread Adapter for Electrical Metallic Tubing

Any Appleton Threaded Unilets or similar fittings made by other manufacturers will take Electrical Metallic Tubing with the use of this Adapter screwed into the hub of any 3/8 to 2-inch Threaded type Fittings and grips the conduit securely. This Adapter practically makes a no-thread fitting out of any Threaded Conduit fitting.

Cat. No.	Size In.	Car- ton	Std. Pkg.	Wt. Lbs. Per 100
TW-80T59	3/8	50	200	1 1/2
TW-80T60	1/2	50	200	1 1/2
TW-80T61	3/4	25	100	5
TW-80T62	1	25	50	6
TW-80T63	1 1/4	10	20	10
TW-80T64	1 1/2	5	10	15
TW-80T65	2	2	5	20

ADAPTERS FOR USE WITH STANDARD NO-THREAD UNILETS



Showing Adapter which replaces Regular Contacting Sleeve in No-Thread Unilets.

Designed for use in hubs of 1/2 to 2-inch Rectangular and other types of No-Thread Unilets for Heavy-Wall Conduit. The contacting Sleeve regularly furnished with the No-Thread Unilets must be removed and this Electrical Metallic Tubing Adapter inserted. Knurled nut is then screwed down and Electrical Metallic Tubing held firmly.

Cat. No.	Size In.	Car- ton	Std. Pkg.	Wt. Lbs. Per 100
TW-80T30	1/2	50	200	3 1/2
TW-80T31	3/4	25	100	6 1/4
TW-80T32	1	25	50	9 1/2
TW-80T33	1 1/4	10	20	13 1/2
TW-80T34	1 1/2	5	20	21
TW-80T35	2	2	5	33 1/2

NO-THREAD END FITTING



Cat. No.	Size In.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.
TW-71T90	1/2	20	100	28
TW-71T91	3/4	15	50	29
TW-71T92	1	10	25	29
TW-71T93	1 1/4	5	10	37
TW-71T94	1 1/2	5	10	38
TW-71T95	2	1	5	17

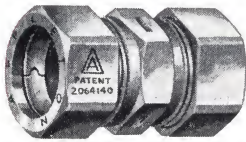
Schedule "TW" Discounts

APPLETON CONDUIT FITTINGS

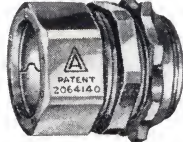
Cadmium Finish

COMPRESSION RING TYPE COUPLINGS AND CONNECTORS—RAINTIGHT

For Electrical Metallic Tubing



Patent 2064140
Coupling
Compression Ring Type
Approved Raintight



Patent 2064140
Connector
Compression Ring Type
Approved Raintight

Couplings				
Cat. No.	Size Inches	Car- ton	Std. Pkg.	Wt. Lbs. Per 100
TW-95T038	$\frac{3}{8}$	50	200	12
TW-95T050	$\frac{1}{2}$	50	200	13
TW-95T075	$\frac{3}{4}$	25	100	15
TW-95T100	1	25	50	20
TW-95T125	$1\frac{1}{4}$	5	25	50
TW-95T150	$1\frac{1}{2}$	2	10	80
TW-95T200	2	1	5	140
Connectors				
TW-96T038†	$\frac{3}{8}$	50	200	10
TW-96T050	$\frac{1}{2}$	50	200	11
TW-96T075	$\frac{3}{4}$	25	100	13
TW-96T100	1	25	50	20
TW-96T125	$1\frac{1}{4}$	5	25	50
TW-96T150	$1\frac{1}{2}$	2	10	60
TW-96T200	2	1	5	100

†No. TW-96T038 Connector is designed to take $\frac{3}{8}$ -inch Electrical Metallic Tubing, and the other end is threaded and furnished with locknut to fit in regular $\frac{1}{2}$ -inch Knockout.

B-M CONNECTORS AND COUPLINGS (INDENTER TYPE)



B-M CONNECTOR

For use with Electrical Metallic Tubing. Cadmium finish.

Cat. No.	Size Inches	Car-ton	Std. Pkg.	Wt.Lbs. Per 100	Price per 100		
					Less Carton	Std. Pkg.	
B-M 21	$\frac{1}{2}$	50	200	6	\$8.45	\$7.65	\$6.90
B-M 22	$\frac{3}{4}$	25	100	12	14.40	13.20	12.00
B-M 23	1	10	50	15	21.90	19.00	17.50

B-M COUPLING

For use with Electrical Metallic Tubing. Cadmium finish.



Cat. No.	Size Inches	Car-ton	Std. Pkg.	Wt.Lbs. Per 100	Price per 100		
					Less Carton	Std. Pkg.	
B-M 41	$\frac{1}{2}$	50	200	5	\$7.00	\$6.25	\$5.70
B-M 42	$\frac{3}{4}$	25	100	10	9.00	8.25	7.45
B-M 43	1	10	50	12	14.50	13.25	12.00

BRIEGEL METHOD TOOLS

For Use with Electrical Metallic Tubing

B-M INDENTER No. 606



A small light tool for installing the $\frac{1}{2}$ -inch fittings only. Two squeezes on the handles, and the fitting is securely fastened to the Electrical Metallic Tubing.

Price, No. 606 Indenter.....each \$2.95

B-M INDENTER No. 600



By means of interchangeable jaws this Indenter can be used with $\frac{1}{2}$, $\frac{3}{4}$ or 1-inch fittings.

Cat. No.	Description	Price
600	Indenter only.....each	\$4.35
6000	$\frac{1}{2}$ -inch Indenter Jaws.....per pair	2.95
6001	$\frac{3}{4}$ -inch Indenter Jaws.....per pair	2.95
6002	1-inch Indenter Jaws.....per pair	2.95
6003	Indenter Points for Nos. B-M 605, 6000, 6001, and 6002 Indenter Jaws.....per doz.	.75

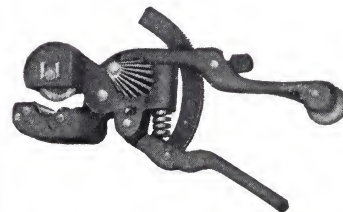
B-M TUBE HOLDER No. 1000



For $\frac{1}{2}$ to 1-inch sizes inclusive. This simple tube holder enables user to easily hold the Electrical Metallic Tubing in one hand while cutting and burring the tube. Will not distort tube, or damage the outside finish of the tube.

Price, No. 1000 Tube Holder.....each \$2.10

B-M TUBE CUTTER No. 100



It is only necessary to compress the handles once to apply uniform pressure on the cutting wheel. The tube is cut perfectly square with no burr on outside and very little burr on the inside. A reamer is attached to remove the burr from the inside of the tube. Cuts $\frac{1}{2}$ -inch tube in 10 turns. For $\frac{1}{2}$ -inch to 1-inch sizes inclusive.

Price, No. 100 Tube-Cutter.....each \$6.05
Cutter Wheel only for B-M Cutter Tool..... 1.40

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use with Electrical Metallic Tubing
(Threadless Thin-Wall Conduit)



ONE-SCREW MALLEABLE CLAMPS

Cat. No.	Size Inches	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
TW-171T49	3/8	200	2000	3
TW-171T50	1/2	200	2000	3 3/4
TW-171T51	3/4	200	1000	5 1/2
TW-171T52	1	100	500	7
TW-171T53	1 1/4	100	500	11
TW-171T54	1 1/2	50	500	15
TW-171T55	2	50	250	17

ONE-SCREW STEEL CLAMPS



Cat. No.	Size Inches	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
TW-172T50	1/2	500	2000	57
TW-172T51	3/4	200	2000	65



90-DEGREE SHORT ELBOW

Cat. No.	Size In.	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
TW-73T90	1/2	25	50	11
TW-73T91	3/4	25	50	16
TW-73T92	1	5	25	13

TYPE FEL SPECIAL ENTRANCE ELL

Cat. No.	Size In.	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
TW-37T90	1/2	25	100	30
TW-37T91	3/4	5	50	26
TW-37T92	1	5	25	24
TW-37T93	1 1/4	5	25	34



Schedule "TW" Discounts

UTILITY TOOL

NO. 2000 UTILITY TOOL

For All Electrical Metallic Tubing Jobs



Indispensable for use in Electrical Metallic Tubing work. The wrench ends will fit all locking nuts 1/8-inch and 1 1/8-inch hexagons used with 1/2-inch and 3/4-inch Electrical Metallic Tubing. Drop forged from selected steel. Heat treated and tempered. Heavily plated with polished heads.

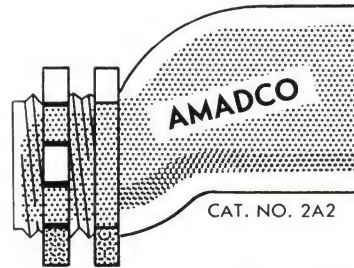
Cat. No.	Size Inch	Display Carton	Wt. Lbs. Per Doz.
TW-2000	1/2 and 3/4	12	5

Schedule "TW" Discounts

AMADCO LANGMAN PATENTED OFFSETS

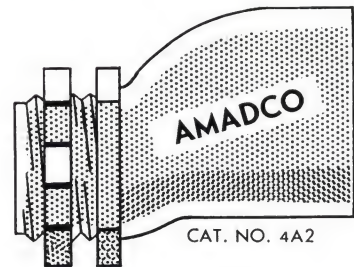
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BOND TYPE LANGMAN OFFSET—E.M.T.



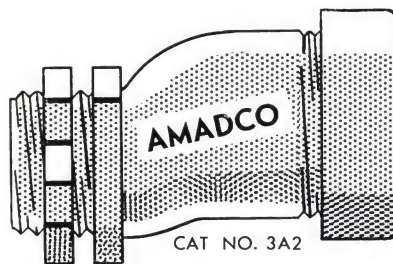
Cat. No.	Size Inches	Std. Pkg.	Car-ton	Wt. Lbs. Per 100	Carton Net Cost Per 100	Std. Pkg. Net Cost Per 100
2A2	1/2	200	50	10	\$12.25	\$11.65
2A3	3/4	100	50	15	16.50	15.65
2A3A	3/4	100	50	17	17.20	16.25
2A4	1	100	25	21	28.10	25.95

RIGID TYPE LANGMAN OFFSET



Cat. No.	Size Inches	Std. Pkg.	Car-ton	Wt. Lbs. Per 100	Carton Net Cost Per 100	Std. Pkg. Net Cost Per 100
4A2	1/2	200	50	12	\$18.10	\$17.50
4A3	3/4	100	50	18	23.00	21.75
4A4	1	50	25	25	35.00	33.10
4A5	1 1/4	---	---	---	119.10	116.90
4A6	1 1/2	---	---	---	---	131.60
4A7	2	---	---	---	---	201.10
4A8	2 1/2	---	---	---	---	341.00
4A9	3	---	---	---	---	891.00
4A10	3 1/2	---	---	---	---	1396.00

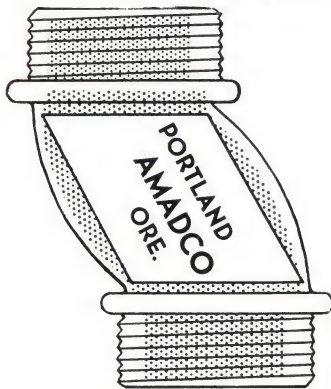
RAINTIGHT LANGMAN OFFSET—E.M.T.



Cat. No.	Size Inches	Std. Pkg.	Car-ton	Wt. Lbs. Per 100	Carton Net Cost Per 100	Std. Pkg. Net Cost Per 100
3A2	1/2	200	50	12	\$17.75	\$17.25
3A3	3/4	100	50	21	21.10	19.50
3A3A	3/4	100	50	20	24.40	21.00
3A4	1	50	25	28	32.40	29.40
3A5	1 1/4	---	---	---	74.50	68.90
3A6	1 1/2	---	---	---	110.00	97.75

AMADCO LANGMAN PATENTED OFFSETS

Approved by Underwriters' Laboratories, Inc.



STANDARD
LANGMAN
GUTTER
OFFSET

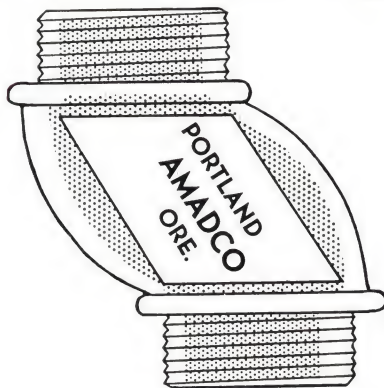
3/4-Inch Offset

CAT. NO. 6A2

Cat. No.	Size Inches	Std. Pkg.	Car-ton	Wt. Lbs. Per 100	Carton Net Cost Per 100	Std. Pkg. Net Cost Per 100
6A2	1/2	100	50	15	\$20.50	\$19.75
6A3	3/4	80	20	23	22.75	21.25
6A4	1	60	15	25	29.00	26.75
6A5	1 1/4	40	10	40	34.00	31.50
6A6	1 1/2	40	10	22	36.00	33.50
6A7	2	---	---	---	---	---

SPECIAL
LANGMAN
GUTTER
OFFSET

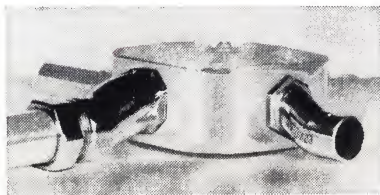
1-Inch Offset



CAT. NO. 5A2

Cat. No.	Size Inches	Std. Pkg.	Car-ton	Wt. Lbs. Per 100	Carton Net Cost Per 100	Std. Pkg. Net Cost Per 100
5A2	1/2	100	25	10	\$23.50	\$21.75
5A3	3/4	80	20	18 1/2	27.10	25.25
5A4	1	60	15	23 1/2	32.75	30.25
5A5	1 1/4	40	10	38	41.00	38.10
5A6	1 1/2	40	10	19	56.00	49.50
5A7	2	40	10	24	---	---
5A8	2 1/2	---	---	---	---	---

ADJUSTABLE LANGMAN OFFSET—E.M.T.



Size In.	Std. Pkg.	Car- ton	Net Cost Per 100					
			Bond Type			Rain Tight		
			Cat. No.	Car- ton	Std. Pkg.	Cat. No.	Car- ton	Std. Pkg.
1/2	100	50	7A2	\$19.40	\$17.85	9A2	\$22.50	\$20.95
3/4	100	50	7A3	23.50	22.25	9A3	28.40	26.50
1	50	25	7A4	30.10	27.45	9A4	33.90	32.65
1 1/4	40	10	7A5	36.80	33.75	9A5	42.50	39.90

NATIONAL ELECTRIC RIGID STEEL CONDUIT

SHERARDUCT—SHERARDIZED

Full Weight—Threaded



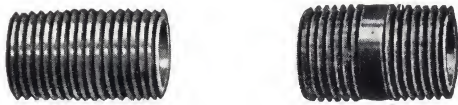
Sherarduct differs from other types of zinc-coated conduit in its superior protection against rust. In Sherardizing, the pipe is placed in iron retorts, surrounded by finely-divided zinc and tightly sealed. The retorts are rolled slowly through a furnace where they are maintained at a temperature of about 800° F. for four to five hours. The zinc coating thus obtained is not merely a covering, it is alloyed with the steel, inside, outside and on the threads. Sherardizing is further protected by a coating of clear enamel, applied over the zinc. This resists acids or similar fumes, which zinc alone will not withstand. On account of the heat to which it is subjected in Sherardizing, Sherarduct is exceptionally easy to bend without flaking or cracking.

Nominal Inside Diam. In.	Conduit Diam., In.		Wall Thick., In.	Wt., Lbs. Per 1000 Ft.	Threads Per Inch
	External	Internal			
1/4	.540	.364	.088	425	18
3/8	.675	.493	.091	568	18
1/2	.840	.635	.1025	852	14
3/4	1.050	.837	.1065	1134	14
1	1.315	1.070	.1225	1684	11 1/2
1 1/4	1.660	1.409	.1225	2281	11 1/2
1 1/2	1.900	1.633	.1335	2731	11 1/2
2	2.375	2.094	.1405	3678	11 1/2
2 1/2	2.875	2.520	.1865	5819	8
3	3.500	3.102	.199	7616	8
3 1/2	4.000	3.588	.206	9202	8
4	4.500	4.072	.214	10889	8
4 1/2	5.000	4.548	.226	12642	8
5	5.563	5.097	.233	14810	8
6	6.625	6.109	.258	19185	8

Size of Pipe, In.	Couplings Wt. Lbs. Per 100	Elbows		Wt. Lbs. Per 100
		Radius, Inches	Offset, Inches	
1/4	6.0	3.850	6.375	41
3/8	9.5	3.917	6.437	55
1/2	11.6	4.000	6.500	82
3/4	20.9	4.500	7.250	109
1	34.3	5.750	8.625	201
1 1/4	53.5	7.250	10.000	313
1 1/2	74.3	8.250	11.000	441
2	120.8	9.500	13.625	707
2 1/2	172.0	10.500	15.687	1411
3	249.8	13.000	17.750	1850
3 1/2	424.1	15.000	20.000	2979
4	474.1	16.000	21.312	3528
4 1/2	550.0	18.000	23.500	4310
5	700.0	24.000	29.000	6575
6	750.0	30.000	36.500	9645

Shipped in lengths of 10 feet. Each length threaded on both ends and supplied with one coupling.

NATIONAL ELECTRIC RIGID CONDUIT NIPPLES



Close Nipples

Short Nipples



Long Nipples

CLOSE AND SHORT NIPPLES

Right-hand thread. Sherardized or black-enam-
eled.

Pipe Size, In.	Close Nipples				Short Nipples			
	Lgth., In.	Std. Pkg.	Wt. Lbs., Std. Pkg.		Lgth., In.	Std. Pkg.	Wt. Lbs., Std. Pkg.	
1/2	1 1/8	100	6		1 1/2	100	9	
3/4	1 1/8	50	5		2	50	8	
1	1 1/2	25	4		2	25	5	
1 1/4	1 5/8	25	5		2 1/2	15	5	
1 1/2	1 3/4	15	5		2 1/2	10	5	
2	2	10	5		2 1/2	10	6	
2 1/2	2 1/2	5	5		3	5	6	
3	2 5/8	5	6		3	5	8	
3 1/2	2 3/4	1	---		4	1	---	

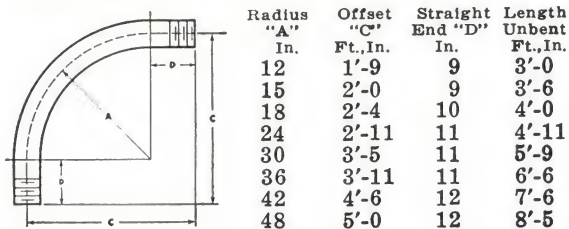
LONG NIPPLES

Pipe Size, In.	Standard Packing								
	2- In.	3- In.	4- In.	5- In.	6- In.	8- In.	10- In.	12- In.	
1/2	25	25	25	25	25	25	25	25	
3/4	---	25	25	20	20	10	25	25	
1	---	20	10	10	10	10	10	10	
1 1/4	---	10	10	5	5	5	5	1	
1 1/2	---	10	5	5	5	5	1	1	
2	---	5	5	5	5	5	1	1	
2 1/2	---	---	5	5	5	5	1	1	
3	---	---	5	5	5	5	1	1	
3 1/2	---	---	---	1	1	1	1	1	

CONDUIT ELBOWS

LARGE-RADIUS ELBOWS

Sherardized zinc-treated or black-enam-
eled.



Approximate Weight Per Elbow, Lbs.

Size In.	Radius in Inches							
	12"	15"	18"	24"	30"	36"	42"	48"
1	4	5	6	8	9	11	12	14
1 1/4	6	7	8	11	13	15	16	18
1 1/2	7	8	10	13	15	18	19	22
2	9	11	13	17	20	24	26	29
2 1/2	15	18	21	27	32	38	41	46
3	---	23	25	35	42	49	53	61
3 1/2	---	---	34	40	50	58	63	72
4	---	---	38	45	65	65	70	80
5	---	---	---	---	77	91	98	112
6	---	---	---	---	---	123	133	152

APPLETON CONDUIT FITTINGS

Cadmium Finish

For Use With Rigid Conduit (Heavy-Wall)

ECONOMICAL CONDUIT COUPLINGS



Cat. No.	Size Inches	Car- ton	Std. Pkg.	Wt. Lbs. Per 100
CF-18801	1/2	50	100	24
CF-18802	3/4	10	40	34
CF-18803	1	5	20	52
CF-18804	1 1/4	5	20	92
CF-18805	1 1/2	5	20	116
CF-18806	2	5	20	195
CF-18807	2 1/2	5	10	380
CF-18808	3	5	10	420
CF-18809	3 1/2	2	5	520
CF-18810	4	2	5	620
CF-18812	5	1	2	900



REDUCERS

Used to reduce Conduit Fittings from
larger to smaller sizes as shown in listing.

Cat. No.	Size Inches	Car- ton	Std. Pkg.	Wt. Lbs. Per 100
CF-8200	1/2 to 3/8	50	100	4
CF-8201	3/4 to 1/2	50	100	5
CF-8202	1 to 1/2	10	40	12
CF-8203	1 1/4 to 1/2	10	40	33
CF-8204	1 1/2 to 1/2	10	40	40
CF-8205	2 to 1/2	5	20	65
CF-8206	2 1/2 to 1/2	5	20	87
CF-8207	3 to 1/2	5	20	115
CF-8208	3 1/2 to 1/2	5	10	175
CF-8209	4 to 1/2	5	10	250
CF-8213	1 to 3/4	10	40	9
CF-8214	1 1/4 to 3/4	10	40	24
CF-8215	1 1/2 to 3/4	10	40	36
CF-8216	2 to 3/4	5	20	70
CF-8217	2 1/2 to 3/4	5	20	84
CF-8218	3 to 3/4	5	20	120
CF-8219	3 1/2 to 3/4	5	10	170
CF-8220	4 to 3/4	5	10	250
CF-8224	1 1/4 to 1	10	40	14
CF-8225	1 1/2 to 1	10	40	29
CF-8226	2 to 1	5	20	52
CF-8227	2 1/2 to 1	5	20	102
CF-8228	3 to 1	5	20	115
CF-8229	3 1/2 to 1	5	10	170
CF-8230	4 to 1	5	10	220
CF-8234	1 1/2 to 1 1/4	10	40	15
CF-8235	2 to 1 1/4	5	20	50
CF-8236	2 1/2 to 1 1/4	5	20	90
CF-8237	3 to 1 1/4	5	20	145
CF-8238	3 1/2 to 1 1/4	5	10	210
CF-8239	4 to 1 1/4	5	10	230
CF-8243	2 to 1 1/2	5	20	38
CF-8244	2 1/2 to 1 1/2	5	20	87
CF-8245	3 to 1 1/2	5	20	125
CF-8246	3 1/2 to 1 1/2	5	10	215
CF-8247	4 to 1 1/2	5	10	255
CF-8251	2 1/2 to 2	5	20	53
CF-8252	3 to 2	5	20	130
CF-8253	3 1/2 to 2	5	10	280
CF-8254	4 to 2	5	10	320
CF-8258	3 to 2 1/2	5	20	100
CF-8259	3 1/2 to 2 1/2	5	10	200
CF-8260	4 to 2 1/2	5	10	263
CF-8264	3 1/2 to 3	5	10	93
CF-8265	4 to 3	5	10	250
CF-8269	4 to 3 1/2	5	10	200

APPLETON CONDUIT FITTINGS

Cadmium Finish

CONDUIT MALE ENLARGERS

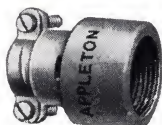


These enlargers, when screwed into the hub of any conduit fitting having $\frac{1}{2}$, $\frac{3}{4}$ or 1-inch female hubs respectively, will enlarge the hub to the next size, namely, $\frac{3}{4}$, 1 and $1\frac{1}{4}$ inches according to the number selected.

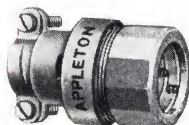
Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF-9407	$\frac{3}{4}$ F. x $\frac{1}{2}$ M.	50	500	70
CF-9408	1 F. x $\frac{3}{4}$ M.	50	500	80
CF-9409	$1\frac{1}{4}$ F. x 1 M.	20	200	40

COMBINATION THREADED COUPLINGS

For connecting Flexible Steel Conduit or Armored Bushed Cable to Rigid Conduit.



Cat. No.	Size Inches	Designed to Hold	Max. Dia. Hole	Carton	Std. Pkg.	Wt. Lbs.
CF-18839	$\frac{1}{2}$	$\frac{3}{8}$ " BX††	----	10	40	6
CF-18840	$\frac{1}{2}$	$\frac{1}{2}$ " Flex.	$\frac{13}{16}$	10	40	7
CF-18841	$\frac{3}{4}$	$\frac{3}{4}$ " Flex.	$1\frac{1}{8}$	10	40	11
CF-18842	1	1" Flex.	$1\frac{13}{16}$	5	20	7
CF-18843	$1\frac{1}{4}$	$1\frac{1}{4}$ " Flex.	$1\frac{11}{16}$	5	20	8
CF-18844	$1\frac{1}{2}$	$1\frac{1}{2}$ " Flex.	2	5	20	15
CF-18845	2	2" Flex.	$2\frac{13}{16}$	5	10	9



COMBINATION NO-THREAD COUPLINGS

For connecting Flexible Steel Conduit or Armored Bushed Cable to Rigid Conduit.

Cat. No.	Size Inches	Designed to Hold	Max. Dia. Hole	Carton	Std. Pkg.	Wt. Lbs.
CF-18849	$\frac{1}{2}$	$\frac{3}{8}$ " BX††	----	10	40	8
CF-18850	$\frac{1}{2}$	$\frac{1}{2}$ " Flex.	$\frac{13}{16}$	10	40	9
CF-18851	$\frac{3}{4}$	$\frac{3}{4}$ " Flex.	$1\frac{1}{8}$	10	40	12

†Armored Cable 1947 Code: 14-2, 14-3, 12-2, 12-3, 12-4, 10-2, 10-3, 10-4, 8-2, 8-3, 8-4, 6-2.

†Armored Cable 1940 Code: 14-2, 14-3, 14-4, 12-2, 12-3, 12-4 and FLEXIBLE STEEL CONDUIT $\frac{3}{4}$ inch.

90 DEGREE KNOCKOUT BOX CONNECTORS

THREADED TYPE

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.
CF-7390	$\frac{1}{2}$	25	50	$8\frac{1}{2}$
CF-7391	$\frac{3}{4}$	25	50	13



NO-THREAD TYPE

Cat. No.	Size In.	Carton	Std. Pkg.	Pkg. Wt. Lbs.
CF-73N90	$\frac{1}{2}$	25	50	10
CF-73N91	$\frac{3}{4}$	25	50	16



NATIONAL ELECTRIC CONDUIT FITTINGS

BONDNUTS



Sharp teeth dig into the wall of the box, locking in a permanent grip that vibration will not loosen. Creates a lock-tight spring-action between threads and box surface.

Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.
$\frac{1}{4}$	100	1000	8	1	50	500	20
$\frac{3}{8}$	100	1000	12	$1\frac{1}{4}$	50	200	13
$\frac{1}{2}$	100	2500	33	$1\frac{1}{2}$	50	100	9
$\frac{3}{4}$	100	1000	$23\frac{1}{2}$	2	25	50	6

LOCKNUTS

Galvanized locknuts. Minimum four-dip Preece test. Easy tightening from any angle.



Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.
$2\frac{1}{2}$	10	30	8	$4\frac{1}{2}$	2	10	10
3	5	25	10	5	2	10	13
$3\frac{1}{2}$	5	25	15	6	2	10	19
4	5	25	20	----	----	----	----



BUSHINGS

Made to exact specifications. Sizes up to $\frac{3}{4}$ -inch are of stamped-steel. All larger sizes are made of cast-iron. Galvanized.

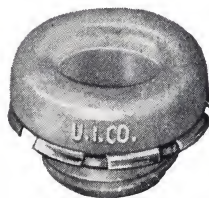
Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.
$\frac{1}{2}$	100	2500	55	3	5	25	$10\frac{1}{2}$
$\frac{3}{4}$	100	1000	37	$3\frac{1}{2}$	5	25	$15\frac{1}{2}$
1	50	500	37	4	5	25	$24\frac{1}{2}$
$1\frac{1}{4}$	50	200	20	$4\frac{1}{2}$	2	10	$12\frac{1}{2}$
$1\frac{1}{2}$	50	100	11	5	2	10	15
2	25	50	8	6	2	10	23
$2\frac{1}{2}$	10	30	10	----	----	----	----

BUSHCAPS

National Buscaps consist of full-strength, National malleable iron, Galvanized bushings, closed by tin caps.



Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Size In.	Car. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.
$\frac{1}{2}$	100	2500	68	$1\frac{1}{4}$	50	200	25
$\frac{3}{4}$	100	1000	38	$1\frac{1}{2}$	25	100	$12\frac{1}{2}$
1	100	500	39	2	25	50	9



PORCELAIN BUSHINGS PIPE THREAD

White glaze. Black glaze available on application.

Cat. No.	Pipe Thd. Size	For KO In.	I.D. In.	Carton	Wt. Lbs. Std. Pkg.	Price Per 100
6880-Plain	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	100	7	\$4.50
6881-Plain	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{3}{8}$	100	9	5.00
6883-Plain	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{2}$	100	13	7.00
6880-LN	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	100	9	6.50
6881-LN	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{3}{8}$	50	12	7.00
6883-LN	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{2}$	50	19	9.00

Standard package, 500.

NATIONAL ELECTRIC INSULATED BUSHINGS



Designed to prevent disastrous grounds which frequently occur with uninsulated bushings. Rust-proofed by Electro-Galvanizing Process.

Cat. No.	Carton Qty.	Size, In.	Std. Pkg.	Wt. Lbs. Std. Pkg.
860	10	1/2	50	2
861	10	3/4	50	3
862	10	1	50	5 1/2
863	2	1 1/4	10	1 1/4
864	2	1 1/2	10	2
865	2	2	10	2 3/4
866	1	2 1/2	5	2 1/2
867	1	3	5	3 1/2
868	1	3 1/2	5	5 3/4
869	1	4	5	6
870	0	4 1/2	1	1 1/2
871	0	5	1	2 1/4
872	0	6	1	3

APPLETON GROUND FITTINGS GROUNDING BUSHINGS



Locking Type
1/2" to 2"



Non-Locking Type
2 1/2" to 4"

Locking Type—Malleable‡

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9450M	1/2	50	100	5
GF-9451M	3/4	50	100	7
GF-9452M	1	25	50	5
GF-9453M	1 1/4	25	50	6 1/4
GF-9454M	1 1/2	25	50	7 3/4
GF-9455M	2	10	25	6

Non-Locking Type—Malleable‡

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9456M	2 1/2	5	10	4 1/4
GF-9457M	3	5	10	6 1/2
GF-9458M	3 1/2	1	5	4 1/2
GF-9459M	4	1	5	6

‡Cadmium finish only.

GROUNDING LOCKNUTS



Eliminates the use of grounding bushing and jumper wire. Used in place of ordinary locknut. The set screw wedges its way between the knockout and conduit, cutting into the steel and forming a perfect bond. Cadmium finish only.

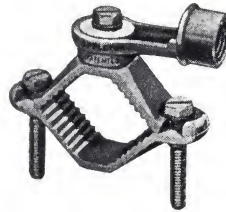
Cat. No.	Size Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9425	1/2	100	3 1/2
GF-9426	3/4	100	4
GF-9427	1	50	3
GF-9428	1 1/4	50	3
GF-9429	1 1/2	50	4
GF-9430	2	25	4
GF-9431	2 1/2	10	2
GF-9432	3	10	4
GF-9433	3 1/2	5	2 1/2
GF-9434	4	5	2 1/2

APPLETON GROUND FITTINGS

For Grounding Service Wire and Conduit System

Cadmium Finish

TYPE LGC ADJUSTABLE GROUND FITTING



For Large Size Water Pipes

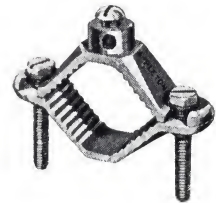
The deck on these large size clamps has a heavy brass washer and by placing the ground wire under the lug it makes a positive bond. Adapted for No. 8, 6, or 4 B&S bare or insulated copper wire.

Cat. No.	Conduit Ground Inches	Size Grounding	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9482	1/2	1 1/4, 1 1/2, & 2"	5	25	20
GF-9483	1/2	2 1/2 and 3"	5	10	15
GF-9484	1/2	3 1/2 and 4"	5	5	9

TYPE LGCH GROUND FITTING

For Large Size Water Pipe

The Type LGCH Ground Fitting is furnished as shown in illustration with a hole through the deck to take No. 8, 6 or 4 bare or insulated copper wire which is held in place by the center screw and lock washer.



Cat. No.	Style	Water Pipe	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9497	"V"	1 1/4, 1 1/2, 2"	5	10	5
GF-9498	Shaped	2 1/2 & 3"	5	10	11
GF-9499	Clamp	3 1/2 & 4"	5	10	15

TYPE GCWC GROUND FITTING



Type GCWC has deck with a hole drilled to accommodate ground wire. The screw, when tightened, wedges the wire into a cup in the center of fitting, making a good bond and positive grip. Adapted for No. 8, 6 or 4 Bare or Insulated Copper Wire.

Cat. No.	Water Pipe	Ground Rod	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9489	1/2, 3/4, 1"	1"	5	25	11

TYPE GCNS NON-SWIVEL GROUND FITTING

Non-swivel type, with "V" shaped clamp fits Nos. 8, 6 or 4 B&S Armored Ground Wire and takes 1/2 to 1-inch Water Pipe or 1-inch Ground Rod. May also be used with Nos. 8, 6 or 4 Bare or Insulated Copper Wire.



Cat. No.	Water Pipe	Ground Rod	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9493	1/2, 3/4, 1"	1"	5	25	7 1/2

Schedule "GF" Discounts

APPLETON GROUND FITTINGS

For Grounding Service Wire and Conduit System

Cadmium Finish

TYPE GCH FITTING FOR RIGID CONDUIT



With Brass Washer

This fitting is equipped with flat washer. Rigid clamp jaws hold securely to water pipe.

Cat. No.	Conduit Ground Inches	Size Grounding—Water Pipe	Ground Rod	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.
GF-9402	1/2	1/2, 3/4, 1"	1"	5	25	10

TYPE "GR" BONDING METER RING

Designed for grounding the meter box to a driven or artificial ground, when a water pipe or other grounding electrode is not available in the building. The meter ring is placed between the watertight connector and the meter box, after which the ground wire is placed through either the vertical or horizontal hole and the screw is then tightened. This makes a good tight connection and a positive bond — no soldering required.



Cat. No.	Size Inches	Car-ton	Standard Package	Wt. Lbs. Std. Pkg.
GF-9415	3/4	50	100	8
GF-9416	1	50	100	8 1/4
GF-9417	1 1/4	10	50	9

Schedule "GF" Discounts

NATIONAL ELECTRIC FLEXSTEEL
LIGHT-WALL FLEXIBLE-STEEL CONDUIT

Conduit is of Bondhook construction, which enables it to be fished most readily — the convolutions act as roller-bearings with less than one-half the friction surface.

Size, Inches	Approx. Ft. per Std. Coil	Approx. Lbs. per 1000 Ft.	Size, Inches	Approx. Ft. per Std. Coil	Approx. Lbs. per 1000 Ft.
1/8	250	150	1 1/4	50	1250
3/8	250	255	1 1/2	25	1625
1/2	100	470	2	25	2125
3/4	50	575	2 1/2	25	2630
1	50	1020	3	25	3130

NATIONAL ELECTRIC BARE ARMORED
GROUND-WIRE

Size	Approx. Ft. per Coil	Approx. Lbs. per 1000 Ft.
8/1 Solid	250	136
6/1 Solid	250	168
4/1 Solid	250	241

A.B.C. ARMORED CABLE



This cable is made of soft, heavily-tinned, solid or stranded copper conductors, individually insulated with rubber and covered with a moisture-resisting and flame-retarding saturated braid. Individual conductors finished in different colors for identification. Multiple conductors are twisted and covered overall with a tough overlapping saturated Kraft paper, which furnishes valuable protection between the insulated wires and steel armor.

The flexible, steel armor overall is formed of heavily-zinc-coated steel grip, interlocked construction. The method of interlocking permits greater flexibility and creates continuous metal-to-metal grounding contact throughout the entire length of the cable.

A new low resistance, flat, grounding strip in contact with the inside of the armor gives two paths to ground for sizes Nos. 14 and 12 wire.

Single-Conductor

Size of Cable	Solid Wires—Approx. Feet Per Coil	Bush. Per Coil	Size of Cable	Stranded Wires—Approx. Feet Per Coil	Bush. Per Coil
8/1	250	35	6/1S	250	35
6/1	250	35	4/1S	150	35
			2/1S	100	16
			1/1S	100	16

Duplex Conductors

14/2	250	35	8/2S	150	20
12/2	250	35	6/2S	100	16
10/2	250	35	4/2S	100	16
8/2	150	20	2/2S	100	16

Triplex Conductors

14/3	250	35	8/3S	150	20
12/3	250	35	6/3S	100	16
10/3	250	35	4/3S	100	16
8/3	150	20	2/3S	100	16

Four-Conductors

14/4	250	35	8/4S	100	16
12/4	250	35	6/4S	100	16
10/4	150	20	4/4S	100	16

A.B.C. ARMORED LEADED CABLE

Duplex Conductors

Size of Cable	Solid Wires—Approx. Feet Per Coil	Bush. Per Coil	Size of Cable	Stranded Wires—Approx. Feet Per Coil	Bush. Per Coil
14/2	150	---	8/2S	100	---
12/2	150	---	6/2S	100	---
10/2	100	---			

Triplex Conductors

14/3	150	---	8/3S	100	---
12/3	150	---	6/3S	100	---
10/3	100	---	4/3S	100	---

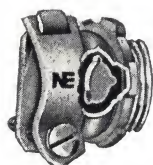
RED FIBRE ANTI-SHORT BUSHINGS



For use with A.B.C. Armored Bushed Cable. Each coil of A.B.C. cable has attached a bag containing sufficient "Anti-Short" Bushings for average requirements. Extra "Anti-Shorts" are sold separately.

NATIONAL ELECTRIC BOX CONNECTORS

EZ-HINGED-STRAP STYLE



For Armored Cable, Lampcord, and Flexible Conduit. The standard connector of the electrical industry. EZ-Strap is wide, strong, and clamps cable more securely and strongly without contortion of cable. This point is particularly advantageous in use with Flexible Steel Conduit. Rustproofed Finish.

Cat. No.	KO Size, Inches	Open, ID, In.	Closed, ID, In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
Fits Armored Cable: 14-2, 14-3, 14-4, 12-2, 12-3, 12-4, 10-2, 8-1, 6-1, 4-1, 2-1; Armored Lead Cable: 14-2, 14-3, 12-2, 12-3, 8-1, 6-1, 4-1; Flexible Conduit: $\frac{3}{8}$ -inch, $\frac{1}{2}$ -inch.					
2163-EZ	$\frac{1}{2}$	.656	.344	1000	68
Fits Armored Cable: 14-1, 12-1, 10-1, 8-1; Armored Lead Cable: 14-1, 12-1, 10-1; Flexible Conduit: $\frac{3}{8}$ -inch.					
2222-EZ*	$\frac{1}{2}$	.532	.250	1000	68
Fits Armored Cable: 10-2, 10-3, 10-4, 8-2, 8-1; Armored Lead Cable: 14-4, 12-2, 12-3, 12-4, 10-2, 10-3.					
2165-EZ*	$\frac{1}{2}$	.875	.532	100	11
Fits Armored Cable: 10-4, 8-2, 8-3, 8-4, 6-2; Armored Lead Cable: 10-2, 10-3, 10-4, 8-2, 8-3; Flexible Conduit $\frac{1}{2}$ inch.					
2166-EZ	$\frac{1}{2}$	.937	.593	100	11
Fits Armored Cable: 14-6, 8-3, 8-4, 6-2, 6-3; Armored Lead Cable: 10-4, 8-2, 8-3.					
2166-X-EZ†	$\frac{3}{4}$	1.015	.800	100	19
Fits Armored Cable: 14-10, 6-3, 6-4, 4-2, 4-3; Armored Lead Cable: 8-4, 6-2, 6-3; Flexible Conduit $\frac{3}{4}$ -inch.					
2167-EZ	$\frac{3}{4}$	1.125	.875	100	19 $\frac{1}{2}$
Fits Armored Cable: 14-14, 6-4, 4-3, 4-4, 2-2; Armored Lead Cable: 6-3, 6-4, 4-2.					
2167-X-EZ†	1	1.220	.969	25	8
Fits Armored Cable: 4-4, 2-3; Armored Lead Cable 6-4, 4-3.					
2168-EZ	1	1.375	1.078	25	8
For Flexible Conduit 1-inch.					
2169-EZ	1	1.531	1.125	25	10
For Flexible Conduit 1 $\frac{1}{4}$ -inch.					
2170-EZ	1 $\frac{1}{4}$	1.781	1.500	10	6
For Flexible Conduit 1 $\frac{1}{2}$ -inch.					
2171-EZ	1 $\frac{1}{2}$	2.101	1.750	10	7
For Flexible Conduit 2-inch.					
2172-EZ	2	2.609	2.250	10	12
For Flexible Conduit 2 $\frac{1}{2}$ -inch.					
2173-S	2 $\frac{1}{2}$	3.062	2.750	5	8
For Flexible Conduit 3-inch.					
2174-S	3	3.562	3.250	5	11

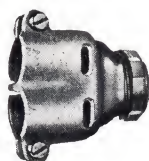
EZ—Indicates Hinged Strap-Type. S—Indicates Squeeze-Type.

†X—Is an intermediate size.

*Includes fibre washer for wire throat.

DUPLEX TYPE

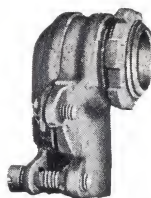
For Armored Cable and Flexible Conduit. For use in taking two armored cables into one $\frac{1}{2}$ -inch knockout. Simply by tightening two screws the cables are held firmly and securely in place. Rustproofed finish.



Cat. No.	KO Size, Inches	Open, ID, In.	Closed, ID, In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
Fits Armored Cable: 14-2, 14-3, 12-2, 4-1; Flexible Conduit $\frac{1}{2}$ -inch.					
2175-EZ	$\frac{1}{2}$	.635	.500	100	17

NATIONAL ELECTRIC BOX CONNECTORS

90-DEGREE-ANGLE BOX CONNECTORS OPEN-BACK TYPE



For Armored Cable, Armored Lead Cable, Lampcord, and Flexible Conduit. Rustproofed Finish.

Cat. No.	KO Size, Inches	Open, ID, In.	Closed, ID, In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
Fits Armored Cable: 14-2, 14-3, 12-2, 4-1; Armored Lead Cable: 6-1; Lampcord, Plain: 14-2, 14-3; Flexible Conduit $\frac{1}{2}$ -inch.					
2210-EZ	$\frac{1}{2}$	.635	.500	100	17 $\frac{1}{2}$
Fits Armored Cable: 8-3; Armored Lead Cable: 12-4, 10-3, 10-4, 8-2; Flexible Conduit $\frac{1}{2}$ -inch.					
2211-EZ	$\frac{1}{2}$	.930	.740	100	24
Fits Armored Cable: 6-3, 6-4, 4-2, 4-3; Armored Lead Cable: 8-4, 6-2, 6-3; Flexible Conduit $\frac{3}{4}$ -inch.					
2214-EZ	$\frac{3}{4}$	1.125	.875	50	16
Fits Armored Cable: 2-3; Armored Lead Cable: 4-4; Flexible Conduit 1-inch.					
2216-EZ	1	1.531	1.250	20	12
For Flexible Conduit 1 $\frac{1}{4}$ -inch.					
2218-EZ	1 $\frac{1}{4}$	1.7187	1.4375	10	12
For Flexible Conduit 1 $\frac{1}{2}$ -inch.					
2234-EZ	1 $\frac{1}{2}$	2.1093	1.750	10	17

45-DEGREE-ANGLE BOX CONNECTORS

OPEN-BACK TYPE

For Armored Cable, Lampcord and Flexible Conduit. An openback connector at 45°-angle allowing for easy fishing with separate cable clamps. Rustproofed finish.



Cat. No.	KO Size, Inches	Open, ID, In.	Closed, ID, In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
2208-EZ	$\frac{1}{2}$	.635	.500	100	14
2208-X-EZ	$\frac{1}{2}$	.695	.547	100	17
2212-X-EZ	$\frac{1}{2}$	.875	.680	100	19
2209-SO	$\frac{1}{2}$	.937	.843	100	19
2217-SO	1	1.531	1.250	20	9
2219-SO	1 $\frac{1}{4}$	1.7187	1.4375	10	7



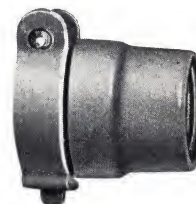
CONDUIT COUPLINGS SQUEEZE-TYPE

Rigid to Flexible Conduit. Rustproofed finish.

Cat. No.	For Conduit, Inches	Open, ID, In.	Closed, ID, In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
2190-S	$\frac{1}{2}$	.937	.718	50	8
2191-S	$\frac{3}{4}$	1.156	.937	50	11
2196-S	2 $\frac{1}{2}$	3.094	2.687	10	18
2198-S	3	3.531	3.250	5	12

CONDUIT COUPLINGS EZ HINGED-STRAP TYPE

Rigid to Flexible steel conduit. Rustproofed finish.



Cat. No.	For Conduit, Inches	Open, ID, In.	Closed, ID, In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
2192-EZ	1	1.422	1.125	25	9
2193-EZ	1 $\frac{1}{4}$	1.766	1.344	25	15
2194-EZ	1 $\frac{1}{2}$	2.047	1.687	25	19
2195-EZ	2	2.531	2.187	10	11

APPLETON BOX CONNECTORS

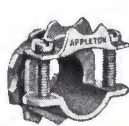
For Flexible Steel Conduit and Armored Cable



BC-7285V



BC-7315V



BC-7260V with Clamp in Regular Position Open to Maximum Capacity

Cat. No.	Size In.	Size K.O.	Approx. Opening In.	Approx. Closed In.	Approx. Diam. Bushed Hole	Std. Pkg.	Car- ton	Lbs. per 1000
BC-7285V	3/8	1/2	.625	.250	1 1/8	1000	100	75

For Armored Cable—14-2, 14-3, 12-2, 12-3, 12-4, 10-2, 14-2L, 12-2L. Flexible Steel Conduit— $\frac{1}{8}$ inch to $\frac{3}{4}$ inch.

For Armored Cable—14-2, 14-3, 12-2. Flexible Steel Conduit— $\frac{1}{8}$ inch.

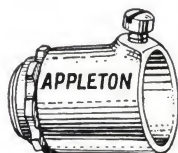
BC-7315V	3/8	1/2	.531	.250	1 1/8	1000	100	87
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For Armored Cable—14-2, 14-3, 12-2. Flexible Steel Conduit— $\frac{1}{8}$ inch.

BC-7260V	3/8	1/2	.531	.250	1 1/8	1000	100	98
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SET SCREW CONNECTORS

For Flexible Steel Conduit



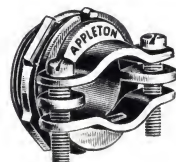
BC-7251

These connectors are made in $\frac{1}{4}$ -inch to 2-inch sizes. They are the regular set-screw types of connectors and hold the Flexible Steel Conduit very securely.

Cat. No.	Size In.	Size K.O.	Approx. Opening Inches	Approx. Closed Inches	Approx. Diam. Bushed Hole	Std. Pkg.	Car- ton	Pkg. Wt.
BC-7251	1/2	1/2	.938	.750	5/8	100	20	27

Schedule "BC" Discounts

For Larger Sizes of Non-Metallic Sheathed Cable and Service Entrance Cable



BC-15233

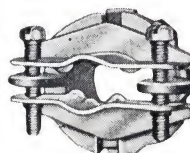
These connectors will also take Service Entrance Cable.

Cat. No.	Size K.O.	Approx. Opening In.	Approx. Closed In.	Approx. Wire In. Throat	Std. Pkg.	Car- ton	Wt. Lbs. Per 1000
BC-15233	3/4	.780	.32	3/4	50	25	200
BC-15234	1	1.000	.500	1 1/8	20	10	300
BC-15235	1 1/4	1.375	.750	1 3/8	20	10	270

NATIONAL BOX CONNECTORS

SERVICE ENTRANCE CABLE AND LOOMWIRE CONNECTORS

Galvanized Finish



National Electric two-screw (take-all type) connectors for Loomwire and Service Entrance Cable will take a large range of sizes, round or oval, without use of shims.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
708-N	25	50	18 1/4

Fits Cable Sizes Type "SE", Style "A": 12-2, 12-3, 10-2, 10-3, 8-2, 8-3, 6-2, 4-2, 2-2; Type "SE", Style "U": 12-3, 10-2, 10-3, 8-2, 8-3, 6-2, 4-2, 2-2; Type "SD": 8-2, 8-3, 6-2, 6-3, 4-3, 2-2; Loomwire: 14-3, 14-4, 12-3, 12-4, 10-3, 10-4, 8-2. Fits $\frac{3}{4}$ -inch K.O. or threaded fitting.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
709-N	10	20	5

Fits Cable Sizes Type "SE", Style "A": 8-3, 6-3, 4-3, 2-2, 2-3; Type SE, Style "U": 8-3, 6-3, 4-3, 2-2, 2-3; Type "SD": 6-3, 4-3, 2-3; Loomwire: 8-3, 8-4, 6-2, 6-3, 4-2. Fits 1-inch K.O. or threaded fitting.

LOOMWIRE CONNECTORS

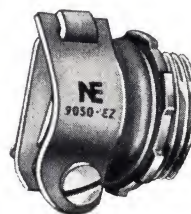
ROCK-IN TYPE

For 14/2, 14/3, 12/2 and 12/3 Loomwire.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 1000
9049-EZ	50	1000	44



LOOMWIRE CONNECTORS



For 14/2, 14/3, 12/2, 12/3 Loomwire.
.584 inch open .343 inch closed.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 1000
9050-EZ	50	1000	68

For 10/2, 10/3 Loomwire.
.670 inch open .500 inch closed.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 1000
9051-EZ	50	1000	68



APPLETON FIXTURE EXTENSION PIECES

 $\frac{3}{8}$ -inch Male by $\frac{3}{8}$ -inch Female

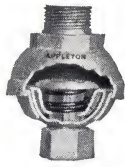
Cat. No.	Length Inches	Car- ton	Std. Pkg.	Wt. Lbs. Per 1000
CF-18830	1	100	1000	52
CF-18831	1 3/8	100	1000	70

Schedule "CF" Discounts

SWIVEL FIXTURE HANGERS



Ball
Without
Cushion



Ball
With
Cushion

Ball Without Cushion

Cat. No.	Size— Fixture Stem	Male Hub	Wt. Fixture Lbs.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF-7160	$\frac{3}{8}$	$\frac{1}{2}$	---	10	50	33
CF-7161	$\frac{1}{2}$	$\frac{1}{2}$	---	10	50	34
CF-7162	$\frac{3}{4}$	$\frac{1}{2}$	---	10	50	35
CF-7163	$\frac{3}{4}$	$\frac{3}{4}$	---	10	50	36

Ball With Cushion

CF-7165	$\frac{3}{8}$	$\frac{1}{2}$	3	10	50	40
CF-7166	$\frac{1}{2}$	$\frac{1}{2}$	to	10	50	41
CF-7167	$\frac{3}{4}$	$\frac{1}{2}$	6	10	50	42
CF-7168	$\frac{3}{4}$	$\frac{3}{4}$		10	50	43
CF-7170	$\frac{3}{8}$	$\frac{1}{2}$	6	10	50	40
CF-7171	$\frac{1}{2}$	$\frac{1}{2}$	to	10	50	41
CF-7172	$\frac{3}{4}$	$\frac{1}{2}$	12	10	50	42
CF-7173	$\frac{3}{4}$	$\frac{3}{4}$		10	50	43
CF-7185	$\frac{3}{8}$	$\frac{1}{2}$	12	10	50	41
CF-7186	$\frac{1}{2}$	$\frac{1}{2}$	to	10	50	42
CF-7187	$\frac{3}{4}$	$\frac{1}{2}$	24	10	50	43
CF-7188	$\frac{3}{4}$	$\frac{3}{4}$		10	50	44

COMBINATION HICKEY AND SWIVEL FIXTURE JOINT

In addition to the swivel fixture joint feature it also has the added feature of being a hickey and eliminates the use of the ordinary hickey.

Cat. No.	Size— Inches	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF-7220	$\frac{3}{8}$ - $\frac{3}{8}$	25	50	14
CF-7221	$\frac{3}{8}$ - $\frac{1}{2}$	25	50	14



Schedule "CF" Discounts

NATIONAL ELECTRIC FIXTURE STUDS

Drawn-Steel



No. 2255

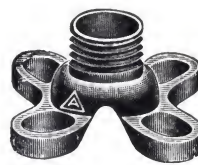


No. 2256

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
2255	$\frac{3}{8}$ -In. Male Closed End	100	500	31
2256	$\frac{3}{8}$ -In. Male and $\frac{1}{8}$ -In. Female	100	500	29

APPLETON FIXTURE STEMS WITHOUT BOLTS

HICKEY FIXTURE STEMS—WITHOUT BOLTS



Malleable—Open Type

Cat. No.	Size— Inches	Std. Pkg.	Pkg. Wt.
CF-8050	$\frac{3}{8}$	1000	75
CF-8052	$\frac{1}{2}$	500	55

Steel—Open Type

CF-8090	$\frac{3}{8}$	1000	76
CF-8091	$\frac{3}{8}$ M- $\frac{1}{2}$ F	1000	75

Carton quantity, 100.

BOLTLESS FIXTURE STEMS

Cat. No.	Size— In.	Car- ton	Std. Pkg.	Pkg. Wt. Lbs.
Solid Type				
CF-8055	$\frac{3}{8}$	100	1000	72
CF-8057	$\frac{1}{2}$	100	1000	80
Open Type				
CF-8056	$\frac{3}{8}$	100	1000	72
CF-8058	$\frac{1}{2}$	100	1000	80
CF-8070	$\left\{ \frac{3}{8} \text{M} \right. \\ \left. \frac{1}{8} \text{F} \right\}$	100	1000	80



Malleable
Manufactured under
U.S. Pat. No.
1,294,790.

COMBINATION EXTENSION PIECES



CF-18835



CF-18836

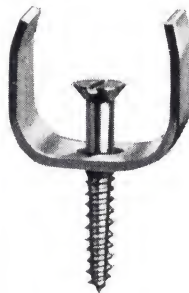
These new extension pieces have internal threads in addition to the standard male thread, so that they may also be used for bracket outlets.

Cat. No.	Size and Description	Car- ton	Std. Pkg.	Wt. Lbs. Per 1000
CF-18835	$\frac{3}{8}$ " Female x $\frac{3}{8}$ " Male, and $\frac{1}{8}$ " Fe- male—1 inch long	100	1000	52
CF-18836	$\frac{3}{8}$ " Female x $\frac{3}{8}$ " Male, and $\frac{1}{8}$ " and $\frac{1}{4}$ " Female — 1 inch long	100	1000	50

†Extensions may be assorted to make up standard package quantities.

BLACKHAWK CABLE STRAPS

ONE-HOLE CABLE STRAPS



Made from sheet aluminum. Will not rust and will bend over easily to hold cable firmly. Saves the electrician considerable time and makes neater installation. Comes complete with 1-inch No. 8 flat head plated wood screws. For size cable: Insulated—2 No. 6. Bare—1 No. 6, 1 No. 8.

Cat. No.	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
610	100	1000	20	\$9.30

TWO-HOLE CABLE STRAPS

Made from heavy gage sheet steel and plated to resist rusting. Has $\frac{3}{8}$ -inch holes. To be used for service entrance cable.



Cat. No.	Size of Cable— Insulated Bare	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
620	$\left\{ \begin{array}{l} 2-4 \\ 2-4 \\ 2-6 \\ 2-6 \end{array} \right. \quad \left\{ \begin{array}{l} 1-4 \\ 1-6 \\ 1-6 \\ 1-8 \end{array} \right.$	100	1000	44	\$7.40

APPLETON CONDUIT FITTINGS

Cadmium Finish

ONE-SCREW
MALLEABLE CLAMPSFor Rigid Conduit
(Heavy-Wall)

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF-17148	1/4	100	100	3
CF-17149	3/8	100	100	3
CF-17150	1/2	100	100	11
CF-17151	3/4	100	100	13
CF-17152	1	100	100	21
CF-17153	1 1/4	10	40	14
CF-17154	1 1/2	10	40	16
CF-17155	2	5	20	14
CF-17156	2 1/2	5	20	25
CF-17157	3	5	20	36
CF-17158	3 1/2	5	10	24
CF-17159	4	5	10	29

ONE-SCREW HEAVY
STAMPED STEEL CLAMPSFor Rigid Conduit
(Heavy-Wall)

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF-17248	1/4	100	500	9
CF-17249	3/8	100	500	9
CF-17250	1/2	100	100	11
CF-17251	3/4	100	100	12
CF-17252	1	100	100	23
CF-17253	1 1/4	10	40	14
CF-17254	1 1/2	10	40	20
CF-17255	2	5	20	16
CF-17256	2 1/2	5	20	16
CF-17257	3	5	10	14
CF-17258	3 1/2	5	10	18
CF-17259	4	5	10	22

GORDON ALUMINUM STRAPS

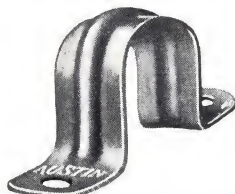


Cat. No.	Style	Packed No. Per Box	Approx. No. Per Pound	Price Per M
G-60	Romex	2500	210	\$3.75
G-20	1/4 Inch Thinwall	2000	160	4.50

AUSTIN STRAPS

TWO-HOLE GALVANIZED STRAPS

Cat. No.	Size In.	Carton	Std. Pkg.	Wt. Lbs. per 1000
Two Hole BX				
1208	1/4	250	1000	14 1/2
Two Hole Conduit				
1209	3/8	250	1000	17 1/2
1210	1/2	100	500	30
1211	3/4	50	250	54
1212	1	50	250	56
1213	1 1/4	20	100	112
1214	1 1/2	20	100	157
1215	2	10	50	225
1216	2 1/2	10	50	282
1217	3	10	50	339



Packed in yellow and blue cartons. Cartons are standard packaging for all Austin fittings.

AUSTIN GROUND WIRE STAPLE



With non-split tapered points for No. 8, 6 or 4 Bare or Armored Ground Wire. Hot dipped galvanized.

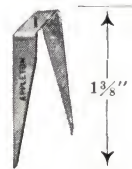
Cat. No.	Size	Unit Pkg.	Std. Pkg.	Wt. Lbs. per 1000
365	1	100	1000	7

E-Z-IN CABLE STRAPS

For Use with Armored Cable

Fits Armored Cable: 14-2, 14-3, 12-2, 12-3, 10-2, 10-3.

Cat. No.	Case Qty.	Length Inches	Wt. Lbs. 5000
CF-8065-5	500	1 3/8	65
CF-8065-25	2500		
CF-8065-50	5000		



Quantity Lots: 30,000, 10,000, 5,000, 2,000, 500.

APPLETON UNIVERSAL CABLE CLAMPS



OF-15275, OF-25275

OF-15276, OF-25276
OF-15277, OF-25277

Malleable Iron				Aluminum			
Cat. No.	Wt. Lbs. Per 100	Std. Pkg.	Carton	Cat. No.	Wt. Lbs. Per 100	Std. Pkg.	Carton
Fits Service Entrance Cable: 2 No. 12, 2 No. 10, 2 No. 8, 2 No. 6, 1 No. 8 and 1 No. 10, 1 No. 6, 1 No. 8, 3 No. 12.							
OF-15275	3	100	100	OF-25275	2		
Fits Service Entrance Cable: 2 No. 4, 1 No. 4 and 1 No. 6, 3 No. 10, 2 No. 10 and 1 No. 12, 3 No. 8, 2 No. 8 and 1 No. 10, 3 No. 6, 2 No. 6 and 1 No. 8.							
OF-15276	4 1/2	100	100	OF-25276	2		
Fits Service Entrance Cable: 2 No. 2, 1 No. 2 and 1 No. 4, 3 No. 4, 2 No. 4 and 1 No. 6, 3 No. 2, 2 No. 2 and 1 No. 4.							
OF-15277	6	100	100	OF-25277	3		

ONE-SCREW CABLE CLAMPS†



For Round Shaped Cable



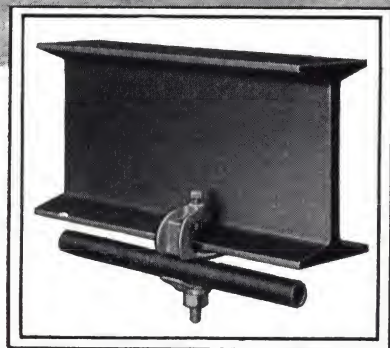
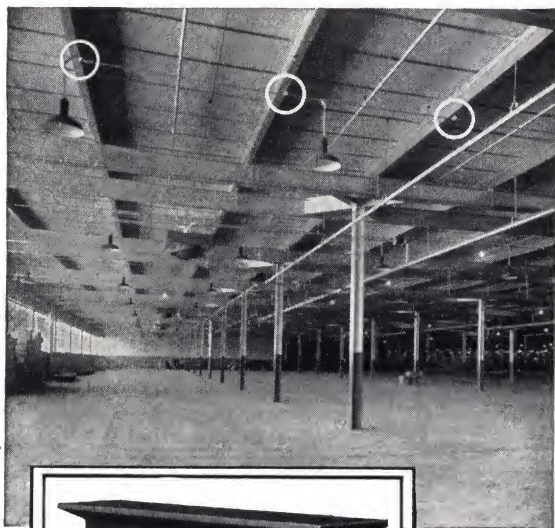
For Oval Shaped Cable

For Round Shaped Cable				For Oval Shaped Cable			
Cat. No.	For Type SE Cable	For Type SD Cable		Cat. No.	For Type SE Cable	For Type SD Cable	
OF-15290	{ 2 No. 12, 2 No. 10 1 No. 10, 1 No. 12	2 No. 10, 2 No. 8		OF-15293	{ 3 No. 12, 3 No. 10 2 No. 10, 1 No. 12	3 No. 8, 2 No. 8 and 1 No. 12	
OF-15291	{ 2 No. 8, 1 No. 8 1 No. 10, 1 No. 6 1 No. 8, 2 No. 6	2 No. 6, 2 No. 4		OF-15240	{ 3 No. 8, 2 No. 8 1 No. 10, 1 No. 6	3 No. 6, 2 No. 6 and 1 No. 8	
OF-15242	2 No. 4, 2 No. 2	2 No. 2		OF-15241	{ 3 No. 6, 3 No. 4 2 No. 6, 1 No. 8	2 No. 4, 1 No. 6	
OF-15243	5 No. 6 (4 insulated, 1 bar) Style ABN			OF-15295	3 No. 2, 1 No. 2	3 No. 2	

Standard package, 100; carton, 100.

APPLETON STA-TITE PIPE HANGERS

For Use With Rigid Conduit (Heavy-Wall)
and Threadless Thin-Wall Conduit

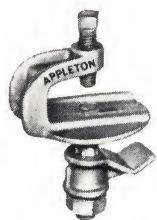


Type PHS with Single Conduit Parallel
with Structural Shape

Sta-Tite Pipe Hangers embody many improvements over other types. The Type PHS permits running the conduit parallel with beam, cross-wise, or any horizontal angle. This is also true of the Type PHD. These Hangers are all designed to accommodate $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ and $1\frac{1}{2}$ -inch Threadless Thin-Wall Conduit.

TYPE PHS—FOR SINGLE LINE CONDUIT

Run Parallel or at Right Angles



For $\frac{1}{2}$ and $\frac{3}{4}$ -Inch Rigid Conduit (Heavy-Wall); also $\frac{1}{2}$, $\frac{3}{4}$, and 1-Inch Threadless Thin-Wall Conduit

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2330	10	100	80

For 1-Inch Rigid Conduit (Heavy-Wall); also $1\frac{1}{4}$ and $1\frac{1}{2}$ -Inch Threadless Thin-Wall Conduit

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2331	10	50	60

Cadmium Finish.

Schedule "CF" Discounts

APPLETON STA-TITE PIPE HANGERS TYPE PHD—FOR TWO LINES OF CONDUIT

Run Parallel or at Right Angles



For $\frac{1}{2}$ and $\frac{3}{4}$ -Inch Rigid Conduit (Heavy-Wall); also $\frac{1}{2}$, $\frac{3}{4}$, and 1-Inch Threadless Thin-Wall Conduit

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2335	10	100	85

For 1-Inch Rigid Conduit (Heavy-Wall); also $1\frac{1}{4}$ and $1\frac{1}{2}$ -Inch Threadless Thin-Wall Conduit

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2336	10	50	50

TYPE PH—FOR SUSPENDING GROUPS OF PIPES FROM STRUCTURAL SHAPES

Also for Use with Accessories
Listed Below

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2342	10	100	65



FOR ONE OR TWO PIPES

When Used With Type PH Hanger



Single



Double

For $\frac{1}{2}$ and $\frac{3}{4}$ -Inch Rigid Conduit (Heavy-Wall); also $\frac{1}{2}$, $\frac{3}{4}$, and 1-Inch Threadless Thin-Wall Conduit

Cat. No.	Type	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2345	Single	10	100	18
CF-2350	Double	10	100	20

For 1-Inch Rigid Conduit (Heavy-Wall); also $1\frac{1}{4}$ and $1\frac{1}{2}$ -Inch Threadless Thin-Wall Conduit

Cat. No.	Type	Car-ton	Std. Pkg.	Wt. Lbs.
CF-2346	Single	10	100	18
CF-2351	Double	10	100	20

Cadmium Finish.

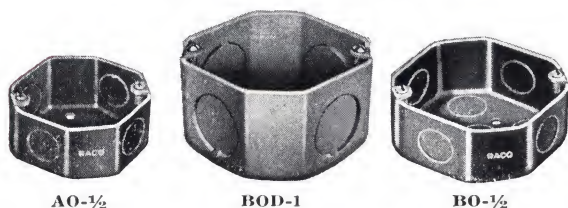
Schedule "CF" Discounts

**YOUR REQUIREMENTS
ALWAYS RECEIVE
OUR CAREFUL ATTENTION**

RACO OUTLET BOXES AND COVERS

For Use With Conduit

RACO OUTLET BOXES



3 1/4-Inch and 4-Inch Octagon Boxes

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
AO-1/2	3 1/4" Oct., 1 1/2" deep—1/2" K.O.	100 48
AO-3/4	3 1/4" Oct., 1 1/2" deep—3/4" K.O.	100 48
BO-1/2	4" Oct., 1 1/2" deep—1/2" K.O.	50 66
BO-3/4	4" Oct., 1 1/2" deep—3/4" K.O.	50 66
BO-C	4" Oct., 1 1/2" deep—1/2" & 3/4" K.O.	50 66
BOD-1/2	4" Oct., 2 1/8" deep—1/2" K.O.	50 84
BOD-3/4	4" Oct., 2 1/8" deep—3/4" K.O.	50 84
BODC	4" Oct., 2 1/8" deep—1/2" & 3/4" K.O.	50 84
BOD-1	4" Oct., 2 1/8" deep—1" K.O.	50 84

4-Inch Square Boxes

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
COS-1/2	4" Sq., 1 1/4" deep—1/2" K.O.	50 75
CO-1/2	4" sq., 1 1/2" deep—1/2" K.O.	50 84
CO-3/4	4" Sq., 1 1/2" deep—3/4" K.O.	50 84
COC	4" Sq., 1 1/2" deep—1/2" & 3/4" K.O.	50 84
COD-1/2	4" Sq., 2 1/8" deep—1/2" K.O.	50 94
COD-3/4	4" Sq., 2 1/8" deep—3/4" K.O.	50 94
COD-1	4" Sq., 2 1/8" deep—1" K.O.	50 94
CODC	4" Sq., 2 1/8" deep—1/2" & 3/4" K.O.	50 94



COB-1/2 Raco "Face-Mount" Bracket Box

Raco Face-Mount Bracket Box

COB-1/2	4" Sq., 1 1/2" deep—1/2" K.O.	25 108
COCB	4" Sq., 1 1/2" deep—1/2" & 3/4" K.O.	25 108



CO-1/2-O "Side-Mount" Bracket Box

"Side-Mount" Bracket Box

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
CO-1/2-O	4" Sq., 1 1/2" deep—1/2" K.O.	25 99
COCO	4" Sq., 1 1/2" deep—1/2" & 3/4" K.O.	25 99

RACO OUTLET BOXES AND COVERS

For Use With Conduit

RACO OUTLET BOXES



FO-3/4

FOD-1

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
FO-1/2	4 1/8" Sq., 1 1/2" deep—1/2" K.O.	50 116
FO-3/4	4 1/8" Sq., 1 1/2" deep—3/4" K.O.	50 116
FOC	4 1/8" Sq., 1 1/2" deep—1/2" & 3/4" K.O.	50 116
FOD-1/2	4 1/8" Sq., 2 1/8" deep—1/2" K.O.	25 128
FOD-3/4	4 1/8" Sq., 2 1/8" deep—3/4" K.O.	25 128
FOD-1	4 1/8" Sq., 2 1/8" deep—1" K.O.	25 128
FODC	4 1/8" Sq., 2 1/8" deep—1/2" & 3/4" K.O.	25 128

RACO EXTENSION RINGS



AOX-1/2

BOX-1/2

BOXD-1/2

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
AOX-1/2	3 1/4" Oct., 1 1/2" deep—1/2" K.O.	50 40
BOX-1/2	4" Oct., 1 1/2" deep—1/2" K.O.	50 48
BOX-3/4	4" Oct., 1 1/2" deep—3/4" K.O.	50 48
BOXD-1/2	4" Oct., 2 1/8" deep—1/2" K.O.	50 60
BOXD-3/4	4" Oct., 2 1/8" deep—3/4" K.O.	50 60
BOXD-1	4" Oct., 2 1/8" deep—1" K.O.	50 60



FOXD-1

FOX-3/4

COX-1/2

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
COX-1/2	4" Sq., 1 1/2" deep—1/2" K.O.	50 60
COX-3/4	4" Sq., 1 1/2" deep—3/4" K.O.	50 60
FOX-1/2	4 1/8" Sq., 1 1/2" deep—1/2" K.O.	25 84
FOX-3/4	4 1/8" Sq., 1 1/2" deep—3/4" K.O.	25 84
FOXD-1/2	4 1/8" Sq., 2 1/8" deep—1/2" K.O.	25 96
FOXD-3/4	4 1/8" Sq., 2 1/8" deep—3/4" K.O.	25 96
FOXD-1	4 1/8" Sq., 2 1/8" deep—1" K.O.	25 96

RACO OUTLET BOX COVERS



For 3 1/4-Inch and 3 1/2-Inch Boxes

Cat. No.	Description	Std. Wt. Lbs. Pkg. Per 100
AO-5	Flat Blank	100 20
AO-7	Flat, 1/2" K.O.	100 20
AO-1	Raised Blank	100 23
AO-8	Raised, 1/2" K.O.	100 23
AO-2	Raised, Bushed	100 22
AO-6	Snap Switch	100 18
AO-10	Receptacle	100 19

RACO OUTLET BOXES AND COVERS

For Use With Conduit

RACO OUTLET BOX COVERS

For 4-Inch Diameter Octagon Boxes

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
BO-5	Flat Blank	100	29
BO-7	Flat, 1/2" K.O.	100	29
BO-1	Raised, Blank	100	38
BO-8	Raised, 1/2" K.O.	100	38
BO-2	Raised, Bushed	100	37
BO-6	Snap Switch	100	27
BO-10	Receptacle	100	34
BO-11	Ring, with ears	100	24
BO-13	Raised 3/4" One Device	100	48
BO-21	Toggle Switch	100	28
BO-23	Duplex Receptacle	100	27

For 4-Inch Square Boxes

CO-5	Flat Blank	100	40
CO-7	Flat, 1/2" K.O.	100	40
CO-1	Raised, Blank	100	49
CO-8	Raised, 1/2" K.O.	100	49
CO-2	Raised, Bushed	50	48
CO-11	Ring, with ears	100	35



CO-13



CO-17

For One-Device

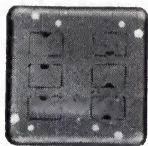
Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
CO-15	One Device, 1/4" raised	100	27
CO-14	One-Device, 1/2" raised	100	35
CO-13	One-Device, 3/4" raised	50	40
CO-12A	One-Device, 1" raised	25	44
CO-12	One-Device, 1 1/4" raised	25	48

For Two Devices

CO-19	Two-Device, 1/4" raised	50	20
CO-18	Two-Device, 1/2" raised	50	24
CO-17	Two-Device, 3/4" raised	50	30
CO-16A	Two-Device, 1" raised	25	32
CO-16	Two-Device, 1 1/4" raised	25	34



CO-30



CO-33



CO-31

For 4-Inch Square Boxes—Exposed Work
1/2-Inch Deep

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
CO-21	One Toggle	25	43
CO-25	Two Toggle	25	42
CO-22	One Receptacle	25	41
CO-26	Two Receptacle	25	39
CO-23	One Duplex	25	40
CO-31	Two Duplex	25	37
CO-28	One Toggle, One Receptacle	25	40
CO-30	One Toggle, One Duplex	25	39
CO-32	Three Despard Devices	25	50
CO-33	Six Despard Devices	25	57

RACO OUTLET BOXES AND COVERS

RACO OUTLET BOX COVERS

For Use With Conduit



FO-14



FO-11

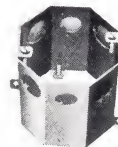


FO-17

Covers for 4 1/8-Inch Square Boxes

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
FO-5	Flat Blank	25	52
FO-8	Raised, 1/2-inch knockout	25	59
FO-11	Ring, with ears	25	48
FO-15	For One Device, 1/4-in. raised	25	40
FO-14	For One Device, 1/2-in. raised	25	48
FO-13	For One Device, 3/4-in. raised	25	53
FO-17	For Two Devices, 3/4-in. raised	25	43

RACO CONCRETE RINGS AND PLATES



No. 830



No. 876
Back Plate

Raco Concrete Rings

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
820	2 inches deep	50	65
825	2 1/2 inches deep	50	80
830	3 inches deep	50	95
835	3 1/2 inches deep	20	110
840	4 inches deep	20	125

Raco Back Plates

875	Back Plate, no stud	50	36
876	Back Plate, with 3/8-inch stud	50	44
877	Back Plate, with 1/2-inch stud	50	52

4-INCH OCTAGON BOXES

For Flexible Metallic or Non-Metallic Cable



DO-26-JK



DO-26-NJK

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
DO-26-JK	4" Oct. with Stud	50	88
DO-26NJK	4" Oct. No Stud	50	80
SU-26-JK	On Deep Bar	25	144
SU-226-JK	On Shallow Bar	25	140

RACO SWITCH BOXES

For Loom and Non-Metallic Cable



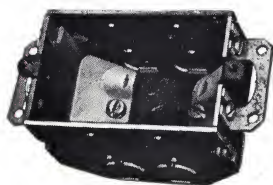
"PRI-OUT" SWITCH BOXES

With Beveled Corners

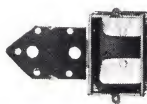
Size box, 3 x 2 x 2 1/4 inches deep.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
BL	No Clamp	50	62
BLBN	With Bracket	25	82
BLC	With L Clamps	50	66

BLC

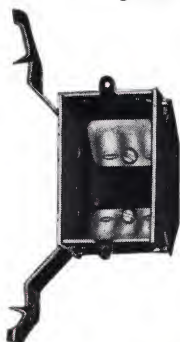


BLN



BLNBN

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
BLN	With BN Clamps, 3"x2"x2 1/4" deep	50	70
BLNNE	No Ears. Nailing Holes and Leveling Bumps.....	50	60
BLNBN	With "Face Mount" Bracket, 3"x2"x2 1/4" deep	25	86
BLNB	With Lath Support, 3"x2"x2 1/4" deep	25	90

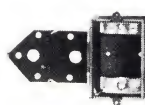


With Raco "Side Mount" Bracket

Cat. No.	Size Box Inches	Std. Pkg.	Wt. Lbs. Per 100
BLNO	3"x2"x2 1/4" deep	50	80



MCL



MCLBN

With LX Clamps

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
MS	3"x2"x1 1/2" deep	50	52
MAL	3"x2"x2" deep	50	68
MCL	3"x2"x2 1/2" deep	50	78
210	4"x2"x2 1/8" deep	50	80
MCLNE	No Ears. Nailing Holes.....	50	76

With Raco "Face-Mount" Bracket

MABLBN	3"x2"x2" deep	25	84
MCLBN	3"x2"x2 1/2" deep	25	94

Raco "Side-Mount" Bracket

2100	4"x2"x2 1/8" deep	25	96
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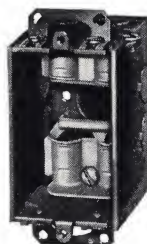
Raco Horizontal Bracket

MCLHB	3"x2"x2 1/2"	25	94
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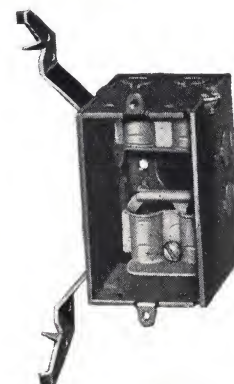
RACO OUTLET AND SWITCH BOXES

For Loom and Non-Metallic Cable

"PRI-OUT" SWITCH BOXES



MC-3



MC-30

With NM Clamps

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
MC-3	3"x2", 2 1/2" deep.....	50	80

With "Face Mount" Bracket

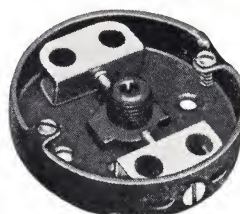
MCBN-3	3"x2", 2 1/2" deep.....	25	98
MCB-3	3"x2", 2 1/2" deep, with lath support	25	102

With "Side-Mount" Bracket

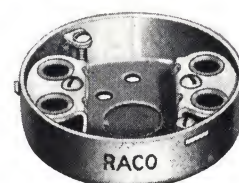
MC-3-0	3"x2", 2 1/2" deep.....	50	90
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RACO ROUND PANS

For Use with BX Cable



DO-12



DO-11

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
DO-11	3 1/2" dia., 3/4" deep, w/ stud.....	100	45
DO-11N	3 1/2" dia., 3/4" deep, no stud.....	100	42
DO-12	3 1/2" dia., 3/4" deep, w/ stud.....	100	48
DO-12N	3 1/2" dia., 3/4" deep, no stud.....	100	45



DO-30N

RACO OCTAGON OUTLET BOXES

With XL Clamps

For BX

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
DO-30N	3 1/2" Octagon, no stud.....	50	62
DO-31	4" Octagon, with stud	50	74
DO-31CE	4" Octagon, with stud, Extended Ears	50	83
DO-31N	4" Octagon, no stud.....	50	68
DO-31NCE	4" Octagon, no stud, Extended Ears	50	79

RACO OUTLET AND SWITCH BOXES

RACO SET-UP BOXES

With XL Clamps for BX Cable



Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
SU-30	DO-30N box on shallow bar..	25	122
SU-31	DO-31N box on deep bar.....	25	142
SU-231	DO-31N box on shallow bar..	25	138

RACO "PRI-OUT" SWITCH BOXES

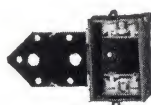
XL Clamps for BX Cable



Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
MA	3"x2", 2" deep.....	50	68
MC	3"x2", 2½" deep.....	50	78
MCD	3"x2", 3½" deep.....	50	98
240	4"x2", 2½" deep.....	50	80

RACO "FACE-MOUNT" BRACKET BOXES

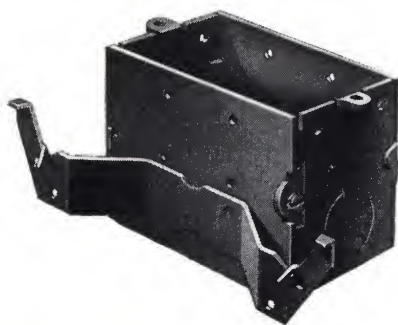
XL Clamps for BX Cable



Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
MABN	2" deep, no lath support....	25	84
MCBN	2½" deep, no lath support....	25	94
MCB	2½" deep, with lath support	25	98
MCHB	For Horizontal Mount.....	25	94

RACO "SIDE-MOUNT" BRACKET BOXES

XL Clamps for BX Cable



Cat. No.	Size Box	Depth	no lath support	Std. Pkg.	Wt. Lbs. Per 100
MCO	3" Lgth. 2" Wdth.	2½"	no lath support	50	88
2400	4" Lgth. 2" Wdth.	2½"	no lath support	25	96

RACO OUTLET AND SWITCH BOXES

XL Clamps for BX Cable

No Ears—Leveling Bumps—Nailing Holes



Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
MC-NE	3"x2"x2½" deep	50	76

RACO HANDY SWITCH BOXES

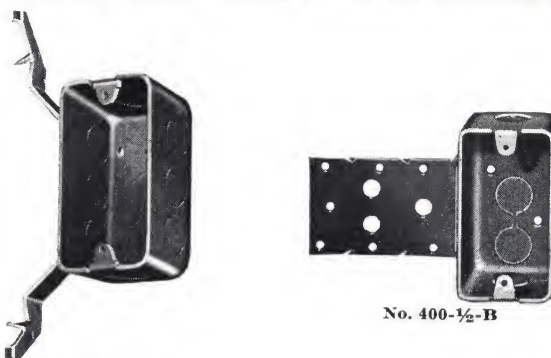
For Use With Conduit



Cat. No.	Length	Size Box Width	Depth	Size K.O.	Std. Pkg.	Wt. Lbs. Per 100
400-½	4"	2½"	2½"	½"	50	66
400-¾	4"	2½"	2½"	¾"	50	66
404-½	4"	2½"	1½"	½"	50	60
408-½	4"	2½"	1½"	½"	50	52
450	3¾"	1½"	1½"	½"	50	44
*40X	4"	2½"	1½"	.....	50	44

*Extension ring.

HANDY BOXES WITH BRACKET SUPPORTS



Cat. No.	Length	Size Box Width	Depth	Size K.O.	Std. Pkg.	Wt. Lbs. Per 100
400-½-B	4"	2½"	2½"	½"	50	90
400-½-O	4"	2½"	2½"	½"	50	81



Cat. No.	Type Cover	Wt. Lbs. Per 100	Cat. No.	Type Cover	Wt. Lbs. Per 100
410	Blank	20	423	1 Recept.	16
425	Duplex	15	460	Blk. for 450	13
427	Toggle	17	428	Despard,	
421	Push Sw. ...	17		3 Device..	25

RACO OUTLET AND SWITCH BOXES

For Use With Conduit



EO-2

RACO PANS

Co. No.	Size Box		Std. Pkg.	Wt. Lbs. Per 100
	Dia.	Dpth.		
EO-2	4"	1/2"	100	35
EO-9	4"	3/4"	100	48

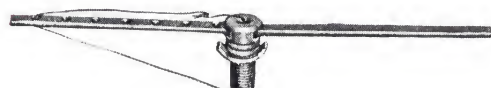
RACO BAR HANGERS



HA



HS



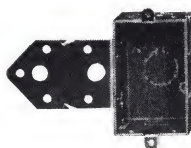
HO

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
HB	Straight, 18" long	100	53
HB-24	Straight, 24" long	100	68
HB-26	Straight, 26" long	100	75
HS	Shallow, 18" long	50	60
HS-24	Shallow, 24" long	50	74
HS-26	Shallow, 26" long	50	82
HD	Deep, 18" long	50	64
HD-24	Deep, 24" long	50	78
HD-26	Deep, 26" long	50	82
HO	Old Work	100	38
HOW	Old Work, Offset	50	42
HA	16 1/2" long	50	44
HAL	22 1/2" long	50	52

RACO CONDUIT SWITCH BOXES



RS



RMBN

Cat. No.	Size Box			Std. Pkg.	Wt. Lbs. Std. Pkg.
	Length	Width	Depth		
RS	3"	2"	2"	50	62
RM	3"	2"	2 1/2"	50	72
RM-NE*	3"	2"	2 1/2"	50	70
RD	3"	2"	2 3/4"	50	78
200	4"	2"	2 1/8"	50	75

"Face-Mount" Bracket Boxes

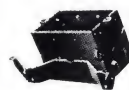
RSBN	3"	2"	2"	25	78
RMBN	3"	2"	2 1/2"	25	88
RDBN	3"	2"	2 3/4"	25	94
RMB†	3"	2"	2 1/2"	25	92

†With lath support. *No ears, nailing holes.

RACO OUTLET AND SWITCH BOXES

"SIDE-MOUNT" BRACKET BOXES

For Use with Conduit



RMO

Cat. No.	Size Box			Std. Pkg.	Wt. Lbs. Per 100
	L.	W.	D.		
RMO	3"	2"	2 1/2"	50	82
2000	4"	2"	2 1/4"	25	92

RACO OUTLET BOXES

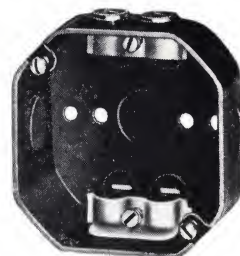
For Loom and Non-Metallic Cable

With LX Clamps

Cat. No.	Size	Std. Pkg.	Wt. Lbs. Per 100
DO-21†	3 1/2"	50	64
DO-21N‡	3 1/2"	50	60
DO-21NCE*	3 1/2"	50	65
DO-16N‡	4"	50	70

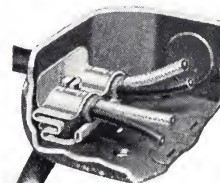
†With stud. ‡No stud.

*With extended ears.



RACO OUTLET BOXES

For Loom and Non-Metallic Cable



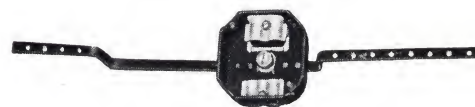
Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100
DO-16-3	4" Octagon, with stud.	50	76
DO-16-3CE	4" Octagon, stud, extended ears	50	81
DO-16-N3	4" Octagon, no stud.	50	72
DO-16-N3CE	4" Octagon, no stud, extended ears	50	77

RACO SET-UP BOXES

For Loom and Non-Metallic Cable



No. SU-21



No. SU-16-3

Cat. No.	Box	Clamps	Type Bar	Std. Pkg.	Wt. Lbs. Per 100
SU-21	DO-21-N	LX	Shallow	25	120
SU-16-3	DO-16N3	NM	Deep	25	136
SU-216-3	DO-16N3	NM	Shallow	25	132

RACO ROUND PANS



DO-10N

Cat. No.		Dia.	D. Clamp	Std. Pkg.	Wt. Lbs. Per 100
DO-19	No Stud	3 1/2"	1/2" L	100	34
DO-9	No Stud	3 1/2"	3/4" L	100	39
DO-10	W/ Stud	3 1/2"	3/4" LX	100	46
DO-10N	No Stud	3 1/2"	3/4" LX	100	43

NATIONAL ELECTRIC "REDEGE" BOXES AND EXTENSION RINGS

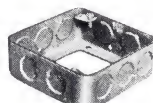
4-INCH SQUARE CONDUIT BOXES AND EXTENSION RINGS



No. 2410



No. 2400



No. 2404

4-inch Square Conduit Boxes and Extension Rings. 1½ inches deep. Galvanized finish only. Standard Package, 50.

Cat. No.	Universal No.	Knockouts, In. Bottom	Sides	Wt., Lbs. Std. Pkg.
2400	52151	3-½	10-½	42
2401	52151	{3-½ 2-¾}	8-¾	42
2410	52151	{3-½ 2-¾}	{8-½ 4-¾}	42
2407*	52141	{3-½ 2-¾}	10-½	38

*1¼ inches deep.

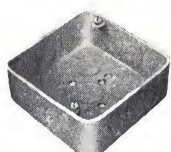
Two-hole cover lugs with ⅜-inch screws, standard on all 4-inch square boxes.

Extension Rings

Cat. No.	Universal No.	KOs in Sides	Depth Inside, In.	Std. Pkg.	Wt., Lbs. Std. Pkg.
2404	53151	10-½	1½	50	30
2405	53151	{8-¾ 2-½}	1½	50	30

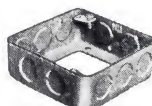
Above Extension Rings have two tapped lugs at top and two untapped lugs at bottom.

4½-INCH SQUARE CONDUIT BOXES AND EXTENSION RINGS



No. 2500

Nos. 2500 and 2501 inside depth 1½ inches, Nos. 2514, 2515 and 2590 inside depth 2½ inches. Galvanized finish only.



No. 2504

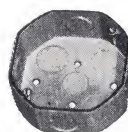
Cat. No.	Universal No.	Knockouts, In. Bottom	Sides	Std. Pkg.	Wt., Lbs. Std. Pkg.
2500	72151	{3-½ 2-¾}	10-½	25	24
2501	72151	{3-½ 2-¾}	8-¾	25	24
2514	72171	{3-½ 2-¾}	10-½	25	32
2515	72171	{3-½ 2-¾}	8-¾	25	32
2590	72171	{3-½ 2-¾}	8-1	25	32

Extension Rings

Cat. No.	Universal No.	Knockouts, Inches	Depth Inside, Inches	Std. Pkg.	Wt., Lbs. Std. Pkg.
2504	83151	10-½	1½	25	17
2505	83151	8-¾	1½	25	17

NATIONAL ELECTRIC "REDEGE" BOXES AND EXTENSION RINGS

4-INCH OCTAGON CONDUIT BOXES AND EXTENSION RINGS



No. 2700

4-inch Octagon Conduit Boxes and Extension Rings. Galvanized finish only. Standard Package, 50.



No. 2705

Cat. No.	Universal No.	Knockouts, In. Bottom	Sides	Depth Inside, In.	Wt., Lbs. Std. Pkg.
2700	54151	{3-½ 2-¾}	4-½	1½	32
2701	54151	{3-½ 2-¾}	4-¾	1½	32
2702	54151	{3-½ 2-¾}	{2-½ 2-¾}	1½	32
2714	54171	{3-½ 2-¾}	4-½	2½	41
2715	54171	{3-½ 2-¾}	4-¾	2½	41
2790	54171	{3-½ 2-¾}	4-1	2½	41

Extension Rings

Cat. No.	Universal No.	KOs in Sides	Depth Inside, In.	Wt., Lbs. Std. Pkg.
2704	55151	4-½	1½	22
2705	55151	4-¾	1½	22

3¼-INCH OCTAGON CONDUIT BOXES AND EXTENSION RINGS



No. 2900

3¼-inch Octagon Conduit Boxes and Extension Rings. 1½ inches deep inside. Galvanized finish only.



No. 2905

Standard Package, 50.

Cat. No.	Universal No.	Knockouts, Inches Bottom	Sides	Wt., Lbs. Std. Pkg.
2900	24151	1-½	4-½	25
2901	24151	1-½	4-¾	25

Extension Rings

Cat. No.	Universal No.	KOs in Sides	Cover Lugs	Wt., Lbs. Std. Pkg.
2904	25151	4-½	Yes	42

Above Extension Rings have two tapped lugs at top and two untapped lugs at bottom.

REDEGE SHALLOW CEILING BOX



No. 2630, 4-inch shallow ceiling box. Depth, ½-inch. Galvanized.

Cat. No.	Universal No.	KOs	Cover Lugs	Std. Pkg.	Wt., Lbs. Std. Pkg.
2630	56111	5-½ in.	Yes	50	25

NATIONAL CONDUIT BOX COVERS FOR OCTAGON AND ROUND CONDUIT BOXES

No. 26AC, 4-inch size. No. 28AC, 3¾-inch size. Flat closed.

Cat. No.	Universal No.	Std. Pkg.	Wt. Lbs. Std. Pkg.
26AC	54C1	100	30
28AC	24C1	100	20



Cat. No.	Universal No.	Std. Pkg.	Wt. Lbs. Std. Pkg.
26AR	54C7	100	35
28AR	24C7	100	22

Galvanized finish only.

NATIONAL ELECTRIC "REDEGE" CABLE BOXES FOR ARMORED CABLE AND NON-METALLIC SHEATHED CABLE

Cable Knockouts Take 14/2, 14/3, 12/2
and 12/3 Armored Cable

4-INCH OCTAGON BOXES

1½ Inches Deep

Cat. No.	Knockouts Bottom	Sides	Wt., Lbs. Std. Pkg.
*†2766	4-Cable	4-Cable 2-½-in. Conduit	40
2769	4-Cable	4-Cable 1-½-in. 2-½-in. Conduit Conduit	40

Reversible Cable Clamps

Cat. No.	Knockouts Bottom	Sides	Wt., Lbs., Std. Pkg.
*†2767	4-Cable	4-Cable 2-½-in. Conduit	40

Standard package, 50.

Cat. No.	Knockouts Bottom	Sides	Wt., Lbs., Std. Pkg.
2770	4-Cable	4-Cable 1-½-in. 2-½-in. Conduit Conduit	40

Standard package, 50.

3¼-INCH OCTAGON BOXES 1½ Inches Deep

Cat. No.	Knockouts Bottom	Sides	Wt. Lbs., Std. Pkg.
2910L2	8-Loom	4-Loom 1-½-in. 4-½-in. Conduit Conduit	52

2 CL-5 clamps.

Standard package, 100.

Cat. No.	Knockouts Bottom	Sides	Wt. Lbs., Std. Pkg.
2910L3	4-Loom	2-½-in. Conduit	50

2 Loom clamps.

Standard package, 100.

3¼-INCH ROUND BOXES ¾-Inch Deep

Cat. No.	Knockouts Bottom	Wt. Lbs., Std. Pkg.
†2365	4-¾" KOs for Armored Cable or Loom.	22

Stationary Clamps.

Standard package, 50.

Cat. No.	Knockouts Bottom	Wt. Lbs., Std. Pkg.
2368	4-¾" KOs for Armored Cable or Loom, 1-½" KO for Conduit.	22

Stationary Clamps.

Standard package, 50.

3½-INCH ROUND BOX ½-Inch Deep

Cat. No.	Knockouts Bottom	Wt., Lbs., Std. Pkg.
2835-L2	1-½-in. and 8-Loom.	20

(With cover lugs)

Stationary Clamps.

Standard package, 50.

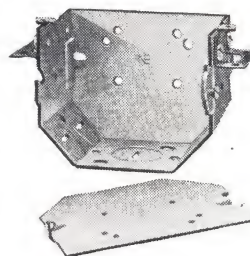
*Also available on Offset Bars.

†¾-inch male fixture stud.

NATIONAL ELECTRIC "REDEGE" DEVICE BOXES

Interchangeable Sectional

FOR NON-METALLIC SHEATHED CABLE

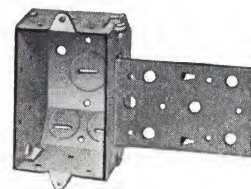


Two ⅝-inch loom
KOs in bevels. One
½-inch conduit KO in
bottom and fixture
stud holes. No clamps.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
3	2¼	50	30

No. 3 with welded-on
stud face bracket. No
lath support. No clamps.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
3-B	2¼	50	40

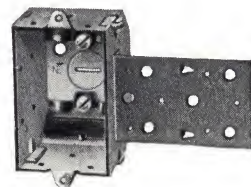


Two ⅝-inch loom KOs
in bevels. ½-inch con-
duit KO in bottom and
fixture stud holes. Two
loom clamps.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
4	2¼	50	32

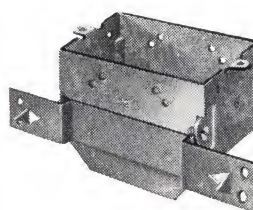
No. 4 with welded-on
stud face bracket. No
lath support. Two loom
clamps.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
4-B	2¼	50	42



No. 4 box with side
bracket. Two loom
clamps. No ears.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs., Std. Pkg.
4-SS	2¼	50	36



NATIONAL ELECTRIC NEW SERIES DEVICE BOXES

With Permanent-Grip Clamp

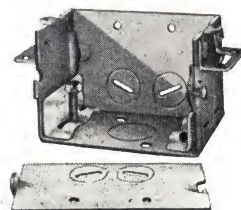
FOR SMALL DIAMETER NON-METALLIC
SHEATHED CABLE, ARMORED CABLE
AND LOOM

Listed by Underwriters' Laboratories, Inc.

Standard No. 7 Box
with new clamp designed
to take small diameter
Non-metallic Sheathed
Cable, 2-¾-inch cable
K.O.'s in ends and sides,
½-inch K.O. in bottom.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs. Std. Pkg.
6	2	50	32

Galvanized.

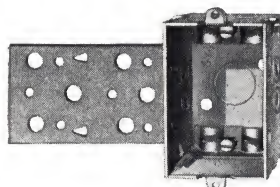


NATIONAL ELECTRIC NEW SERIES DEVICE BOXES

With Permanent-Grip Clamp

FOR SMALL DIAMETER NON-METALLIC
SHEATHED CABLE, ARMORED CABLE
AND LOOM

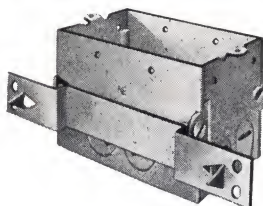
Listed by Underwriters' Laboratories, Inc.



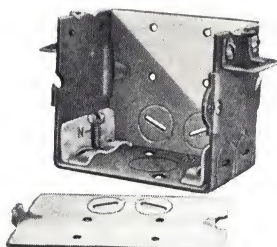
No. 6 Box with welded-on stud face bracket and new clamp for small diameter Non-metallic Sheathed Cable. No lath support.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
6B	2	50	42	

No. 6 Box with stud side bracket and new clamp for small diameter Non-metallic Sheathed Cable.



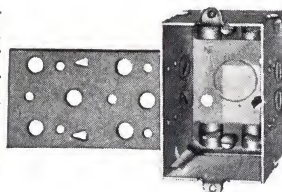
Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
6SS	2	50	41	



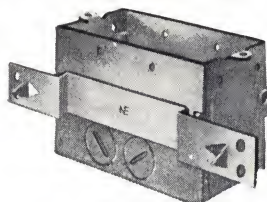
Standard No. 12 Box with new clamp designed especially to take small diameter Non-metallic Sheathed Cable. 2- $\frac{3}{8}$ -inch cable K.O.'s in ends and sides, $\frac{1}{2}$ -inch K.O. in bottom.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
11	2 $\frac{1}{2}$	50	37	

No. 11 Box with welded-on stud face bracket and new clamp for small diameter Non-metallic Sheathed Cable. No lath support.



Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
11B	2 $\frac{1}{2}$	50	46	



No. 11 Box with stud side bracket and new clamp for small diameter Non-metallic sheathed Cable.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
11SS	2 $\frac{1}{2}$	50	42	

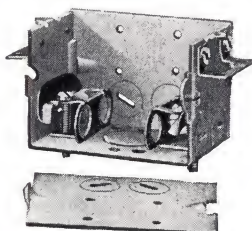
FOR ARMORED CABLE AND NON-METALLIC SHEATHED CABLE

Two $\frac{3}{8}$ -inch cable KO's in ends and sides; $\frac{1}{2}$ -inch KO in bottom. Two single unit all-purpose clamps.

Cable K.O.'s take 14/2, 14/3, 12/2 and 12/3 Armored Cable and Non-Metallic Sheathed Cable.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
7	2	50	32	

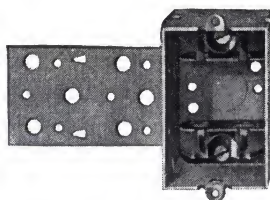
Galvanized.



NATIONAL ELECTRIC "REDEGE" DEVICE BOXES

Interchangeable Sectional

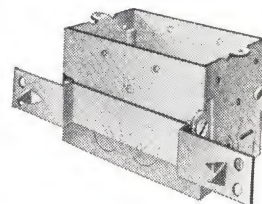
FOR ARMORED CABLE AND NON-METALLIC
SHEATHED CABLE



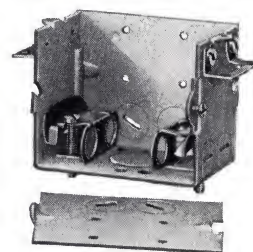
No. 7 with welded-on stud face bracket. No lath support.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
7-B	2	50	42	

No. 7 with stud side bracket for Armored Cable, Non-Metallic Sheathed Cable and Loom. Two clamps.



Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
7-SS	2	50	41	



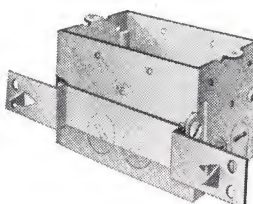
Two $\frac{3}{8}$ -inch cable KO's in end and sides; $\frac{1}{2}$ -inch KO in bottom. Two single unit all-purpose clamps.

Cable knockouts take 14/2, 14/3, 12/2 and 12/3 Armored Cable or Non-Metallic Sheathed Cable.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
12	2 $\frac{1}{2}$	50	37	

No. 12 with welded-on stud face bracket. No lath support. Two single unit all-purpose clamps.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
12-B	2 $\frac{1}{2}$	50	46	



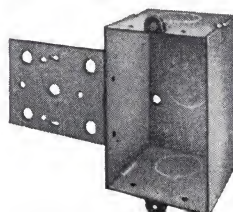
No. 12 Box with stud side bracket. Two single unit all-purpose clamps.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
12-SS	2 $\frac{1}{2}$	50	42	

FOR CONDUIT

One $\frac{1}{2}$ -inch conduit KO in each end; one $\frac{1}{2}$ -inch KO in bottom and fixture stud holes. These boxes may be used for Armored Cable with Standard Connectors.

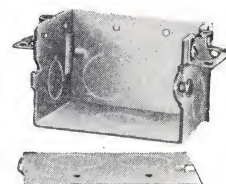
Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
8	2	50	30	



No. 8 with welded-on stud face bracket. No lath support.

Cat. No.	Dpth. In.	Std. Pkg.	Wt. Lbs.	Lbs. Std. Pkg.
8-B	2	50	40	

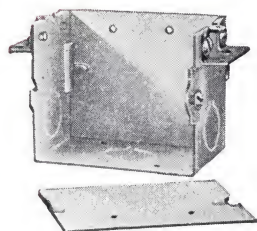
Galvanized finish only.



NATIONAL ELECTRIC "REDEGE" DEVICE BOXES

Interchangeable Sectional

FOR CONDUIT

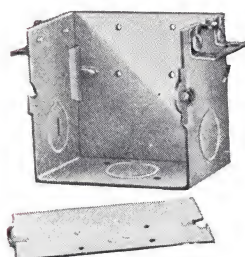
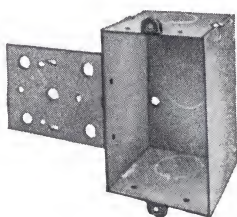


One ½-inch conduit KO in each end; two ½-inch conduit KOs in each side; one ½-inch conduit KO in bottom and fixture stud holes.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs. Std. Pkg.
13	2½	50	36

No. 13 with welded-on stud face bracket. No lath support.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs. Std. Pkg.
13-B	2½	50	46

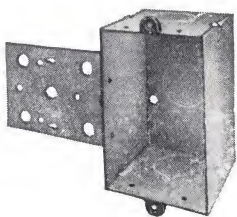


One ½-inch conduit KO in each end; two ½-inch conduit KOs in each side; one ½-inch conduit KO in bottom and fixture stud holes.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs. Std. Pkg.
14	2¾	50	37

No. 4 with welded-on stud face bracket. No lath support.

Cat. No.	Dpth. In.	Std. Pkg.	Wt., Lbs. Std. Pkg.
14-B	2¾	50	48



NATIONAL ELECTRIC DEVICE BOXES

Sectional for Shallow Type Switches
and Devices

FOR RIGID CONDUIT AND A.B.C.
ARMORED CABLE



No. 4170 with one ½-inch conduit KO in sides, end and bottom; one ¾-inch cable KO in each side. No supporting ears on box.

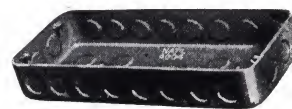
Cat. No.	Depth, Inches	Standard Package	Wt., Lbs. Std. Pkg.
4170	1½	50	28

Galvanized finish only.

NATIONAL ELECTRIC "REDEGE" GANG BOXES AND COVERS



3002



3015



3012



30C4

All boxes are 4½ inches wide and 1½ inches deep inside. The length varies as shown in table below. Suitable holes are provided in the bottom for nails.

Galvanized finish only.

GANG BOXES

Cat. No.	Gangs	Lgth. In.	Ends	Knockouts Sides	Bottom	Std. Pkg.	Wt., Lbs. Std. Pkg.
3002	2	6⅞	2-½	5-½	5-½	5	8
3012	2	6⅞	2-¾	4-¾	3-½; 2-¾	5	8
3003	3	8⅝	2-½	5-½	10-½	5	9
3013	3	8⅝	2-¾	6-¾	6-½; 4-¾	5	9
3004	4	10½	2-½	8-½	10-½	5	12
3014	4	10½	2-¾	7-¾	6-½; 4-¾	5	12
3005	5	12¼	2-½	9-½	10-½	5	13
3015	5	12¼	2-¾	8-¾	6-½; 4-¾	5	13
3006	6	14	2-½	11-½	10-½	5	18
3016	6	14	2-¾	9-¾	6-½; 4-¾	5	18
3007	7	16	2-½	10-½	10-½	5	18
3017	7	16	2-¾	10-¾	4-½; 10-¾	5	18
3008	8	17¾	2-½	12-½	10-½	5	19
3018	8	17¾	2-¾	12-¾	2-½; 8-¾	5	19
3009	9	19½	2-½	14-½	10-½	5	20
3019	9	19½	2-¾	12-¾	2-½; 8-¾	5	20

GANG BOX COVERS

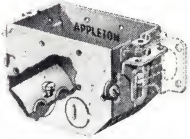
Cat. No.	Gangs	Boxes Designed for	Extra KO Screw Holes Permit Use With Boxes	Std. Pkg.	Wt., Lbs. Std. Pkg.
30C2	2	3002, 3012		5	3
30C3	3	3003, 3013	3002, 3012	5	3
30C4	4	3004, 3014	3003, 3013	5	4
30C5	5	3005, 3015	3004, 3014	5	5
30C6	6	3006, 3016	3005, 3015	1	1
30C7	7	3007, 3017	3006, 3016	1	1
30C8	8	3008, 3018	3007, 3017	1	1
30C9	9	3009, 3019	3008, 3018	1	2
30C10	10		3009, 3019	1	2

APPLETON SWITCH BOXES

Galvanized Finish

FOR NON-METALLIC SHEATHED CABLE AND
NON-METALLIC FLEXIBLE TUBING

With 2 Nail Holes on Each Side—Without Leveling Ridges
With Adjustable Plaster Ears



SB-44AE and SB-388AE Boxes
Two $\frac{3}{4}$ -inch knockouts in each end and two $\frac{3}{4}$ -inch knockouts in each side. Also one $\frac{1}{2}$ -inch knockout in bottom for conduit. Boxes: Length 3 inches; width 2 inches; depth $2\frac{1}{4}$ inches.

Cat. No.	Box Used	Type of Clamp	Std. Pkg.	Wt. Lbs. Per 100
SB-44AE	SB-44	CL-5	50	72
SB-388AE	SB-388	CL-17	50	75

UNION BAKELITE SWITCH AND OUTLET BOXES

Listed by Underwriters' Laboratories, Inc.



No. 4050

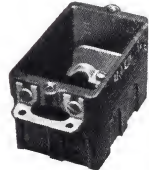


No. 5050



No. 6050

The sizes and design, except for clamps and wire knockouts, are the same as standard metal outlet boxes. Two clamps with each box. They take standard type of fixture studs.



No. 7050

These boxes have side knockouts to take single conductors, in flexible loom. They also take 14-2, 14-3 and 12-2 non-metallic sheathed cable or 14-2, 14-3, 12-2 and 12-3 covered neutral type cable.

Knockouts: No. 3050—4 in sides 1 in bottom; No. 4050—4 in sides, 1 in bottom; all others—4 in ends, 4 in sides, one in bottom.

Cat. No.	Description	Wt. Lbs. Std. Pkg.	Std. Pkg. Price Per 100
3050	$3\frac{1}{4}$ -inch Octagonal Box	22	\$20.21
3050-NC	Same as 3050 but no cable clamps	18	17.43
4050	4-inch Octagonal Box	26	21.96
4050-NC	Same as 4050 but no cable clamps	22	19.61
5050	Rectangular Handy box, $4\frac{3}{8} \times 2\frac{1}{8}$ " deep	30	22.83
5050-NC	Same as 5050 but no cable clamps	23	20.50
6050	Rectangular Handy box with ears, $5\frac{1}{8} \times 2\frac{1}{8}$ " deep	33	28.77
6050-NC	Same as 6050 but no cable clamps	26	25.99
7050	Switch Type $3" \times 2"$ deep	27	21.33
7050-NC	Same as 7050 but no cable clamps	21	19.00
34	Clamp for 3050 and 4050 boxes	2	2.88
35	Clamp for 5050, 6050, 6051-B and 7050 boxes	$3\frac{1}{2}$	3.07
36	Clamp for 5050, 6050, 7050, 7050-C, 7051-B and 7052 boxes	3	3.18

Standard package, 100; carton quantity, 100 except No. 4050, which is 50.

BAKELITE OUTLET BOX COVERS

Listed by Underwriters' Laboratories, Inc.

These covers are sufficiently thick to obviate breakage in installation or use. Standard color Black.

ROUND COVERS

Blank or Pendant Covers

With knockout to convert from blank to pendant.



Cat. No.	Size In.	Car-ton	Std. Pkg.	Pkg. Wt.	Std. Pkg. Price Per 100
3051	$3\frac{1}{4}$	10	100	6	\$ 8.47
4051	4	10	100	10	12.32

SHALLOW SURFACE WIRING BOX AND "HANDY" BOX COVERS

Listed by Underwriters' Laboratories, Inc.



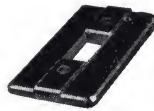
No. 5020



No. 5051—5051-S



No. 5053



No. 5055



No. 5059



No. 5071-I

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Std. Pkg. Price Per 100
5020	Box, Brown, Shallow Surface	50	100	15	\$13.13
5051	Cover, Blank or K.O.	10	100	6	9.08
5051-S	Cover, K.O. with Strap	10	100	11	17.49
5052	Cover, Blank or Pendant	10	100	8	7.77
5053	Cover, Duplex Receptacle	10	100	5	7.77
5054	Cover, Single Plug Receptacle	10	100	6	10.40
5055	Cover, Toggle Switch	10	100	6	7.77
5059	Cover, Keyless Lampholder	10	50	8	19.69
5071-I	Cover, Pull Chain Lampholder	10	50	10	39.38

APPLETON CUPPED REDUCING WASHERS

A practical fitting for reducing the knockouts in outlet boxes, cabinets, etc. Galvanized finish.



Cat. No.	Size Inches	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
CF-7336	$\frac{3}{4}$ to $\frac{1}{2}$	250	500	2
CF-7337	1 to $\frac{3}{4}$	125	250	3
CF-7338	1 to $\frac{1}{2}$	125	250	4
CF-7339	$1\frac{1}{4}$ to 1	125	250	5
CF-7340	$1\frac{1}{4}$ to $\frac{3}{4}$	125	250	6
CF-7341	$1\frac{1}{4}$ to $\frac{1}{2}$	125	250	7
CF-7342	$1\frac{1}{2}$ to $1\frac{1}{4}$	50	100	7
CF-7343	$1\frac{1}{2}$ to 1	50	100	8
CF-7344	$1\frac{1}{2}$ to $\frac{3}{4}$	50	100	9
CF-7345	$1\frac{1}{2}$ to $\frac{1}{2}$	50	100	10
CF-7346	2 to $1\frac{1}{2}$	50	100	5
CF-7347	2 to $1\frac{1}{4}$	50	100	6
CF-7348	2 to 1	50	100	7
CF-7349	2 to $\frac{3}{4}$	50	100	8
CF-7350	2 to $\frac{1}{2}$	50	100	9

Schedule "CF" Discounts

APPLETON SNAP-IN BLANKS



Used for closing up the knock-outs in Service or Outlet Boxes. Snaps into place like a glove fastener. Neat in appearance, made in one piece, and thoroughly rust-proofed.

Cat. No.	Size In.	Wt. Lbs. Per 1000	Cat. No.	Size In.	Wt. Lbs. Per 1000
LB-18870	1/2	17	LB-18873	1 1/4	40
LB-18871	3/4	20	LB-18874	1 1/2	43
LB-18872	1	30	LB-18875	2	65

APPLETON ENTRANCE FITTINGS

For Use with Oval and Round Bare Neutral Concentric Service Cable and also Round Armored Service Entrance Cable



OF-15200



OF-15201

Cat. No.	Min. Dia. of Opening For Cable	Max. Dia. of Opening For Cable	Size of Cable Insulated Cond.	Underwriters' Type Bare Neutral Cable	Std. Car. Pkg. ton
OF-15200	5/16" x 5/8"	3/4" x 1 1/8"	1-12	1-12	
			2-12	1-12	
			1-10	1-10	
			2-10	1-12	
			2-10	1-10	
			1-8	1-8	SE
			2-8	1-10	and 50 5
			2-8	1-8	SD
			2-6	1-8	
			2-6	1-6	
OF-15201	1 1/2" x 1 1/4"	3 3/4" x 1 1/2"	1-6	1-8	
			1-6	1-6	
			1-4	1-6	
			1-4	1-4	
			2-6	1-8	
			2-6	1-6	SE
			2-4	1-6	and 50 5
			2-4	1-4	SD
			1-2	1-2	

TYPE FCE CABLE END FITTING



With 3-Hole Composition Cover
For use with Armored Cable or Non-metallic Sheathed Cable.

Cat. No.	Size In.	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
EF-1755	3/8	25	200	14

APPLETON ENTRANCE FITTINGS

Cadmium Finish

For Rigid Conduit (Heavy-Wall)

FCC CONDUIT END FITTING—THREADED



With 3-Hole Composition Cover

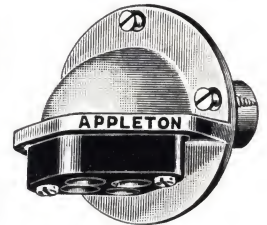
Cat. No.	Size In.	Car-ton	Std. Pkg.	Wt. Lbs. Per 100
EF-1756	1/2	25	200	10

Schedule "EF" Discounts

FLANGED TYPE "REA" ENTRANCE FITTING

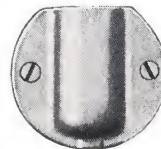
Combination entrance cap and flange for out building service entrances in accordance with REA specifications.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Schedule
REA-25	1	24	20	"EF"
REA-26	1	24	21	"EF"



Schedule "EF" Discounts

SILL PLATES FOR SERVICE ENTRANCE CABLE



Appleton Sill Plates provide metallic protection to the Service Entrance Cable at the most hazardous point, that is, where it enters the house. Does away with unsightly bends and makes a more finished and safer installation.

Can be furnished with DuxSeal Weatherproof Compound which is compressed around the cable and fills up the hole when the plate is screwed down. This eliminates the crowding and inconvenience of drilling a hole through the wall, slanting it to the side and up to prevent water from entering the building.

By using DuxSeal Compound the hole can be drilled in a downward position and a longer sweep bend in the cable is made possible. Appleton Sill Plates are made of aluminum and are furnished with two hot-dipped galvanized screws.

Without DuxSeal Weatherproof Compound

Cat. No.	Fits Cable	Car-ton	Std. Pkg.	Wt. Lbs.
OF-25230	All Sizes to 3 Cond. #4	10	100	12
OF-25231	3 Cond. to 2	10	100	14

With DuxSeal Weatherproof Compound

Cat. No.	Fits Cable	Car-ton	Std. Pkg.	Wt. Lbs.
OF-25235	All Sizes to 3 Cond. #4	10	100	13
OF-25236	3 Cond. to 2	10	100	15

DuxSeal Weatherproof Compound

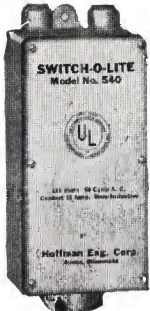
Cat. No.	Description
OF-25250	1 lb. Package
OF-25251	5 lb. Package

‡Malleable Iron, Cadmium Finish.

Schedule "OF" Discounts

HOFFMAN SWITCH-O-LITE

Approved by Underwriters' Laboratories, Inc.



Model No. 540

Consists of a single-pole, single-throw, magnetically operated latch-type relay, fuse holder, and terminal board, all housed in a cast aluminum enclosure, machined and gasketed to provide a completely weatherproof container rated at 115 volts, 60 cycle A.C., 10 ampere, non-inductive, with an operating coil suitable for continuous duty.

Connection outlets have been provided on both top and bottom of Switch-O-Lite's weatherproof, cast aluminum relay box. This permits installation by the most convenient method — either with conduit or flexible cable. Only one wire required from Switch-O-Lite Control Box to switch locations.

Model No.	Description	Price Each
540	Switch-O-Lite	\$12.60
60	Momentary Contact Switch	.75
48	Cylindrical Switch (fits ½-inch aperture on Switch-O-Lite)	1.00

HOFFMAN JUNCTION BOXES

Cast Aluminum—100 Ampere Capacity

Specially designed Junction Boxes for use with underground cable. For service entrance, building entrance, and building to building wiring. No solder, splicing, tape or special connectors necessary.

All junction box cases are made of corrosion resisting cast aluminum and are furnished with weather-tight gasketed cast aluminum covers. Hubs are of solid cast aluminum integral with the case and are taper pipe-tapped for conduit of the sizes listed below. Each bus bar is machined from a single piece of solid copper and provides a means for making connections which is neat, secure, and convenient. The "hot" bus bars are supported by insulating panel bars of Micarta or approved ceramic material and are of ample strength and proportion. The neutral bus bar is grounded to the box.

Bus Bars:

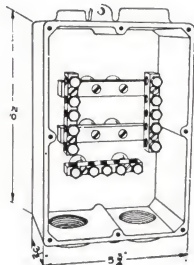
A-50—Each bus bar accommodates two No. 2 and two No. 6 or a larger number of smaller wires.

A-70 and A-72—Each bus bar accommodates two No. 2 and two No. 6 or a larger number of smaller wires.

A-90—Each bus bar accommodates two No. 2, or four No. 6, or a larger number of smaller wires.

Cast Aluminum—100 Ampere Capacity

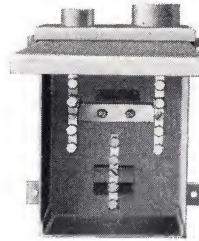
Cat. No.	Dimens., In.	Wt. Lb.	Top Hubs	Bottom Hubs	With Bus Bars	Price Each
A-50	8 5/8" x 7 7/8" x 4 1/4"	8 1/2	1-1 1/4"	2-1 1/4"	Yes	\$12.60
NC-60	8 5/8" x 7 7/8" x 4 1/4"	8 1/2	1-1 1/4"	2-1 1/4"	No	10.10
A-70	8 1/2" x 5 3/4" x 3 1/2"	5 1/4	1-1 1/4"	2-1 1/4"	Yes	8.10
NC-80	8 1/2" x 5 3/4" x 3 1/2"	5 1/4	1-1 1/4"	2-1 1/4"	No	6.10
A-72	8 1/2" x 5 3/4" x 3 1/2"	5 1/4	1-1 1/4"	1-2"	Yes	8.10
A-90	4 3/4" x 5 3/4" x 2 3/4"	3	1-1"	2-1"	Yes	6.60
NC-100	4 3/4" x 5 3/4" x 2 3/4"	3	1-1"	2-1"	No	4.85



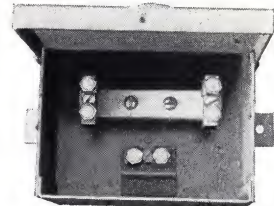
No. A-70

HOFFMAN JUNCTION BOXES

Heavy Gauge Steel—100 Ampere Capacity



No. S-75



No. S-95

Specially designed Junction Boxes for use with underground cable. Saves time and labor and makes connections easier and neater. No solder, splicing, tape or special connectors necessary. For low cost service entrance, building entrance, and building to building wiring.

No. S-75—Each bus bar accommodates two No. 2 and two No. 6 or a larger number of smaller wires.

No. S-95—Each bus bar accommodates two No. 2, or four No. 6, or a larger number of smaller wires.

Steel

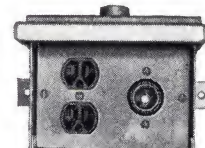
Cat. No.	Dimens., In.	Wt. Lb.	Top Hubs	Bottom Hubs	With Bus Bars	Price Each
S-75	8 1/2" x 5 3/4" x 3 3/4"	6	1-1 1/4"	2-1 1/4"	Yes	\$5.95
SNC-77	8 1/2" x 5 3/4" x 3 3/4"	5	1-1 1/4"	2-1 1/4"	No	2.85
S-95	4 1/2" x 5 3/4" x 3 1/4"	3 1/2	1-1"	2-1"	Yes	4.35
SNC-97	4 1/2" x 5 3/4" x 3 1/4"	3	1-1"	2-1"	No	2.35

HOFFMAN POWER OUTLETS

Heavy Gauge Steel



No. 22



No. 34

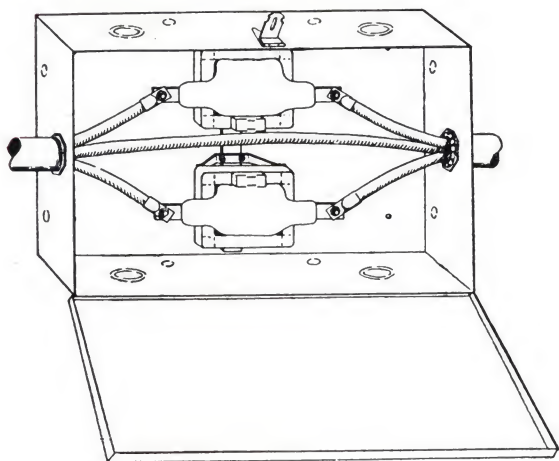
Weatherproof steel boxes with bonderized and baked enamel finish. Bracket mounted for convenient wiring, having solderless terminals.

Cat. No.	Rating Volts	Amps	Hub on Top	K.O. on Bottom	Shpg. Wt. Lbs.	Price Each
22	230	50	1-1 1/4"	1-1"	4 1/2	\$6.10
34	115	15	1- 3/4"	1- 3/4"	3 1/2	4.85

KEES TRANSFORMER CABINETS

FOR TWO TRANSFORMERS

For Indoor Primary Metering High Capacity,
Low Voltage Loads



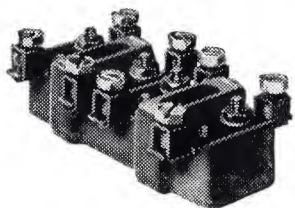
16 gauge galvanized steel cabinet for indoor installation. Door hinged on long side. Edges of door overlap on all sides. Hasp and staple. Holes in back for wall mounting. Can be mounted in any position.

Knockouts for 2- and 2½-inch conduit. Two in each long side, one in each short side, also two 1-inch knockouts in each of four sides. Regular finish aluminum enamel. Size 20x32x10 inches deep. Bar for attaching transformers. Four U bolts. Shipping weight, 50 pounds.

Price, No. 92 Transformer Cabinet.....each \$21.00

KEES METER TEST BLOCK

60 or 100 Ampere, 220 Volt



Simple, compact, low in price. Easily connected and manipulated. Screw-driver is the only tool required to make the test.

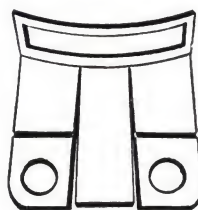
Connections are solderless; a saddle-clamp of unique design eliminates soldering and special meter leads. No loose parts. All current carrying surfaces are completely accessible for inspection. Sequence of connection: Line on left, load on right.

Base, porcelain. Other parts copper, except clamp screws, which are steel, cadmium plated. Size, 5½ inches wide, 2 inches high, 2 inches front to back. Weight 2½ pounds.

Price, No. 7775 Meter Test Block.....each \$2.50

MADISON SWITCH AND OUTLET BOX SUPPORTS

NO. 104 BOX SUPPORTING EAR



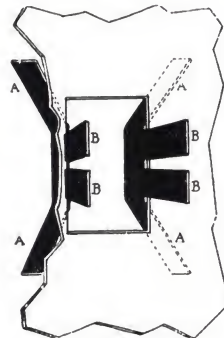
Can be attached to any outlet box of any diameter or depth and provide an outside supporting ear for the box. Ideal for installation in brick wall, fire places, bath rooms, kitchen sinks, etc.

Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
104	500	2	\$.....

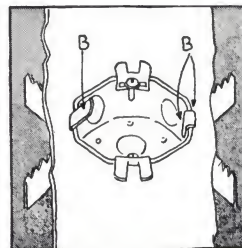
NO. 102 HOLDIT SWITCH BOX SUPPORT

Two metal holders for installing switch boxes in old work. Mounts on lath and plaster, beaver board, sheet rock, metal lath, etc. Makes a positive and rigid installation.

Cat. No.	Standard Package	Price Per 100 Sets
102	500 Sets	\$.....



NO. 103 HOLDIT OUTLET BOX SUPPORT

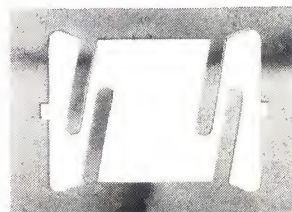


Two metal holders and ears for installing outlet boxes in old work or walls or beaver board, sheet rock, metal lath and lath plaster. Standard package, 500 sets; weight per 100 pieces, 26 pounds.

Price, No. 103 Holdit Outlet Box Support
Per 100 sets.....\$.....

GORDON BOX SUPPORT

G-40 ALUMINUM BOX SUPPORT



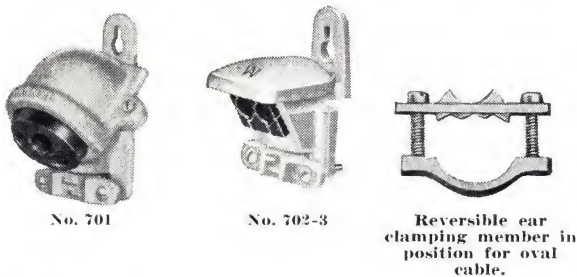
Aluminum Outlet Box Supports can be used on any type of wall construction. No tools needed. No nails or screws used.

Standard package, 1000 Supports. Packed 1000 per carton; 100 per box; 25 per box.

Price, G-40 Aluminum Outlet Box
Supportper 100 \$7.50

WAGNER SERVICE ENTRANCE CABLE FITTINGS

ENTRANCE HEADS FOR SERVICE CABLE



Entrance Heads have one-hole mounting bracket. One loose, reversible, two-screw clamping ear provides for wide range of cable sizes both round and oval.

For Use with Cable Sizes: Type SE—Style A&U, Type SD
2 Cond. No. 2
3 Cond. No. 6, 4 and 2
5 Cond. No. 10, 8 and 6

Cat. No.	Size Opening		Carton Quan.	Shpg. Case Wt. Lbs.		List Price Per 100
	Minimum	Maximum		Quan.	Per 100	
701	$\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{2} \times 1\frac{1}{8}$	2	20	66	-----

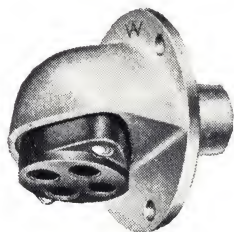
For Use with Cable Sizes: Type SE—Style A&U, Type SD
2 Cond. No. 10, 8, 6 and 4
3 Cond. No. 12, 10, 8, 6 and 4

702	$\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{4} \times 1$	5	100	30	\$96.80
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For Use with Cable Sizes: Type SE—Style A&U, Type SD
2 Cond. No. 10, 8 and 6
3 Cond. No. 12, 10, 8 and 6

703	$\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{4} \times 1\frac{1}{8}$	5	100	28	72.60
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FLANGE TYPE ENTRANCE HEAD



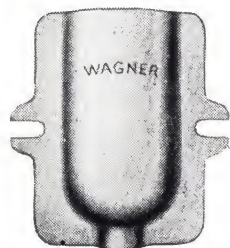
Combination entrance cap and flange recommended for out-building service entrances in accordance with REA specifications. Hot molded insulator is provided with 4 holes, 2 of which are plugged. The $1\frac{1}{2}$ -inch hub in back is tapped for $\frac{1}{2}$ -inch conduit or cable fitting. Easy to install —

drill hole through building wall using $1\frac{1}{8}$ -inch bit. Supplied with DuxSeal compound. DuxSeal is recommended to seal up opening, thereby preventing water seepage into building. Three galvanized wood screws packed with each cap.

Cat. No.	Description	Carton Quan.	Shipping Case		List Price Per 100
			Quan.	Wt. Lbs. Per 100	
699C	With DuxSeal	4	100	42	\$125.00

SILL PLATE FOR SERVICE ENTRANCE CABLE

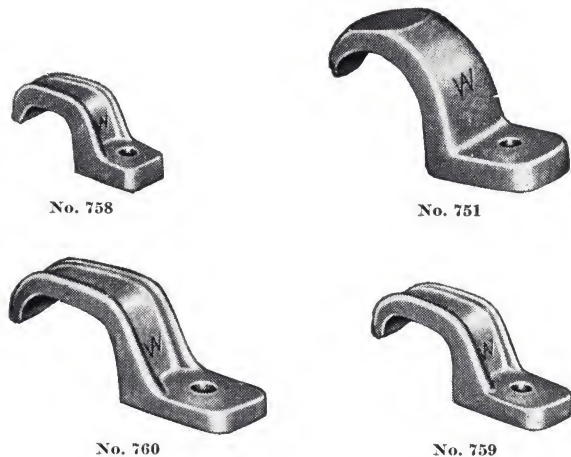
Provides protection to the Service Entrance Cable where it enters the building. Eliminates unsightly bends and makes for a more finished and safer installation. Provided with lip for ground wire which will accommodate all sizes to and including No. 6 armored. DuxSeal is recommended to seal up opening, thereby preventing possibility of water seepage into building. Two galvanized wood screws with each plate.



Cat. No.	Description	Carton Quan.	Shipping Case		List Price Per 100
			Quan.	Wt. Lbs. Per 100	
730C	With DuxSeal	20	100	18	\$34.30

WAGNER SERVICE ENTRANCE CABLE FITTINGS

MALLEABLE IRON STRAPS



Using Wagner one hole malleable iron straps with service entrance cable it is necessary to stock only four sizes. These straps can be made to conform to the exact contour of the cable by tapping the end of the strap with a hammer after it is screwed into position.

Cat. No.	Carton Quan.	Shipping Case		List Price Per 100
		Quan.	Wt. Lbs. Per 100	
Fits Cable: Type SE—Style A&U—5 Cond. No. 6				
751	50	400	10	\$16.94
Fits Cable: Type SE—Style A&U 2 Cond. No. 12 and 10; 3 Cond. No. 12 and 10				
758	200	800	4	7.30
Fits Cable: Type SE—Style A&U 2 Cond. No. 8 and 6; 3 Cond. No. 8 and 6				
759	100	400	6	9.70
Fits Cable: Type SE—Style A&U 2 Cond. No. 4 and 2; 3 Cond. No. 4 and 2				
760	50	400	9	12.10

NON-WATER-TIGHT CONNECTORS



Wagner two-screw (take-all type) non-water-tight connectors for service entrance cable have one loose reversible clamping ear which will take a large range of sizes, either round or oval, without use of shims or inserts.

Fits Cable: Type SE—Style A&U, Type SD
2 Cond. No. 10, 8, 6, 4 and 2;
3 Cond. No. 12, 10 and 8

Cat. No.	Size of Opening for Cable		Fit K.O.	Carton Quan.	Shipping Case		List Price Per 100
	Min.	Max.			Quan.	Wt. Lbs. Per 100	
708	$\frac{3}{8} \times \frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	50	200	22	\$33.88

Fits Cable: Type SE—Style A&U, Type SD
2 Cond. No. 10, 8, 6, 4 and 2
3 Cond. No. 12, 10, 8, 6 and 4

709	$\frac{3}{8} \times \frac{1}{8}$	$1\frac{5}{8}$	1	50	200	23	55.66
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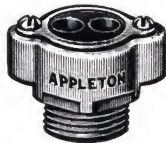
APPLETON WATERTIGHT CONNECTORS



Round

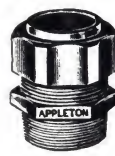


Oval



2-Hole

TWO-SCREW TYPE† (Pat. No. 2,170,393)



Round



Oval



2-Hole

NUT TYPE‡

Two-Screw Type†	Nut Type‡	Size Inches	Size of Opening for Cable	SIZE OF CABLE		Under-writer's Type of Cable	Two-Screw Type†	Nut Type‡	Size Inches	Size of Opening for Cable	SIZE OF CABLE		Under-writer's Type of Cable
				Insulated Cond.	Bare Neutral						Insulated Cond.	Bare Neutral	
Cat. No.	Cat. No.						Cat. No.	Cat. No.					
OF-25501	OF-25278	3/4"	Round 3/8"	1-14 1-12 1-10	1-14 1-12 1-10	SD SD SD	OF-25527	OF-25225	1"	Round 3/4"	1- 2 1- 2 1- 1 2-12 2-14 3-14	1- 4 1- 2 1- 1 1-12	SE SE SE ASE USE USE
OF-25502	OF-25279	1"	Round 3/8"	1-14 1-12 1-10	1-14 1-12 1-10	SD SD SD	OF-25555	OF-25227	1 1/4"	Round 1 1/32"	2- 8	1- 8	ASE
OF-25506	OF-25280	3/4"	Round 7/16"	1-12 1-10 1- 8 1- 8	1-12 1-10 1-10 1- 8	SE SE SD SD	OF-25556	OF-25228	1 1/4"	Round 1 3/32"	2- 6 2- 6	1- 8 1- 6	ASE ASE
OF-25507	OF-25223	1"	Round 7/16"	1-12 1-10 1- 8 1- 8	1-12 1-10 1-10 1- 8	SE SE SD SD	OF-25557	OF-25429	1 1/4"	Round 1 7/32"	2- 4 2- 4	1- 6 1- 4	ASE ASE
OF-25511	OF-25281	3/4"	Round 15/32"	1- 8 1- 8 1- 6 1- 6	1-10 1- 8 1- 8 1- 6	SE SE SD SD	OF-25558	OF-25401	1 1/4"	Round 1 11/32"	2- 2 2- 2	1- 4 1- 2	ASE ASE
OF-25512	OF-25255	1"	Round 15/32"	1- 8 1- 8 1- 6 1- 6	1-10 1- 8 1- 8 1- 6	SE SE SD SD	OF-25531	OF-25285	3/4"	Oval 7/16x9/16"	2-12 2-10 2-10	1-12 1-12 1-10	SE-SD SE-SD SD
OF-25516	OF-25215	3/4"	Round 9/16"	1- 6 1- 6 1- 4	1- 8 1- 6 1- 6	SE SD SD	OF-25532	OF-25224	1"	Oval 7/16x9/16"	2-12 2-10 2-10	1-12 1-12 1-10	SE-SD SE-SD SD
OF-25517	OF-25402	1"	Round 9/16"	1- 6 1- 6 1- 4	1- 8 1- 6 1- 6	SE SD SD	OF-25536	OF-25413	3/4"	Oval 17/32x25/32"	2-10 2- 8 2- 8	1-10 1-10 1- 8	SE SE-SD SD
OF-25521	OF-25419	3/4"	Round 21/32"	1- 4 1- 4 1- 2 1- 2	1- 6 1- 4 1- 4 1- 2	SE SE SD SD	OF-25537	OF-25412	1"	Oval 17/32x25/32"	2-10 2- 8 2- 8	1-10 1-10 1- 8	SE SE-SD SD
OF-25522	OF-25217	1"	Round 21/32"	1- 4 1- 4 1- 2 1- 2	1- 6 1- 4 1- 4 1- 2	SE SE SD SD	OF-25542	OF-25211	1"	Oval 5/8x7/8"	2- 8 2- 6 2- 6	1- 8 1- 8 1- 6	SE SE-SD SE-SD
OF-25526	OF-25284	3/4"	Round 3/4"	1- 2 1- 2 1- 1 2-12 2-14 3-14	1- 4 1- 2 1- 1 1-12	SE SE SE ASE USE USE	OF-25547	OF-25212	1"	Oval 11/16x63/64"	2- 4 2- 4	1- 6 1- 4	SE-SD SE-SD
							OF-25552	OF-25270	1"	Two 7/16" Round Holes	1-12 1-10 1- 8 1- 8	1-12 1-10 1-10 1- 8	SE SE SD SD
							OF-25560	OF-25423	1 1/4"	Oval 13/16x1 1/8"	2- 2 2- 2	1- 4 1- 2	SE-SD SE-SD
							OF-25561	OF-25424	1 1/4"	Oval 13/16x1 9/32"	2- 1 2- 1	1- 3 1- 1	SE-SD SE-SD
							OF-25562	OF-25425	1 1/4"	Two 15/32" Round Holes	1-10 1- 8 1- 8	1-10 1-10 1- 8	SE-SD SE-SD SE-SD
							OF-25563	OF-25426	1 1/4"	Oval 1 1/32x1 1/16"	2- 4 2- 4	1- 4 1- 6	Spl. SE
							OF-25564	OF-25427	1 1/4"	Oval 1 1/4x1 3/16"			Spl. SE

Standard Package and Carton Quantities:

All 3/4" and 1" sizes.....Standard package, 100; carton, 50.

All 1 1/4" sizes.....Standard package, 50; carton, 5.

† Made from non-ferrous metal — will not rust.

‡ Malleable Iron, Cadmium Finish.

KILLARK SERVICE ENTRANCE FITTINGS

TYPE FB SERVICE ENTRANCE FITTINGS

Weatherproof—For Vertical or Horizontal Conduit



On A Vertical Conduit
½ inch to 1½ inches



On A Horizontal Conduit
½ inch to 1½ inches



On A Vertical Conduit
2 inches to 4 inches



On A Vertical Conduit
4½ inches to 6 inches

Size	Outlets	Std. Pkg.	Wt. Lbs. Per 100	Cat. No.	Price Complete
½	2, 3 & 4	25	75	FB-714	.....
¾	2, 3 & 4	25	86	FB-724	.....
1	2, 3 & 4	25	100	FB-734	.....
1¼	3	10	240	FB-743	.....
1¼	4 & 5	10	240	FB-745	.....
1½	2	5	250	FB-752	.....
1½	3	5	250	FB-753	.....
1½	4 & 5	5	250	FB-755	.....
2	2	5	1100	FB-762	.....
2	3	5	1100	FB-763	.....
2	4	5	1100	FB-764	.....
2½	2	1	2400	FB-772	.....
2½	3	1	2400	FB-773	.....
2½	4	1	2400	FB-774	.....
3	2	1	2500	FB-782	.....
3	3	1	2500	FB-783	.....
3	4	1	2500	FB-784	.....
3½	2	1	4200	FB-792	.....
3½	3	1	4200	FB-793	.....
3½	4	1	4200	FB-794	.....
4	2	1	4500	FB-702	.....
4	3	1	4500	FB-703	.....
4	4	1	4500	FB-704	.....
4½	2	1	7400	FB-7112	.....
4½	3	1	7400	FB-7113	.....
4½	4	1	7400	FB-7114	.....
5	2	1	7400	FB-7122	.....
5	3	1	7400	FB-7123	.....
5	4	1	7400	FB-7124	.....
6	2	1	7400	FB-7142	.....
6	3	1	7400	FB-7143	.....
6	4	1	7400	FB-7144	.....

Composition insulators included. These fittings may be ordered with 2, 3, 5, 6, 7 or 8 holes. On 1¼-inch fittings, three holes will be supplied unless otherwise specified.

KILLARK SERVICE ENTRANCE FITTINGS

TYPE FB THREADLESS ENTRANCE FITTINGS

For Standard Threadless or Thinwall Conduit



Composition insulators included. These fittings may be ordered with 2, 3, 4, 5, 6, 7 or 8 holes. On 1¼-inch and 1½-inch fittings, three holes will be supplied unless otherwise specified.

Size	Outlets	Std. Pkg.	Wt. Lbs. Per 100	For Threadless Standard Conduit	For Thinwall Conduit	Price Complete
½	2, 3 & 4	25	75	NFB-714	YFB-714	.....
¾	2, 3 & 4	25	86	NFB-724	YFB-724	.....
1	2, 3 & 4	25	100	NFB-734	YFB-734	.....
1¼	3	10	240	NFB-743	YFB-743	.....
1¼	3, 4 & 5	10	240	NFB-745	YFB-745	.....
1½	3	10	240	NFB-753	YFB-753	.....
1½	3, 5 & 5	10	240	NFB-755	YFB-755	.....

TYPE SLB ENTRANCE ELBOWS

With Rubber Gasket

Size	Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Price Each
½	SLB-1	50	66	.....
¾	SLB-2	25	85	.....
1	SLB-3	25	127	.....
1¼	SLB-4	5	250	.....
1½	SLB-5	5	345	.....
2	SLB-6	1	540	.....
2½	SLB-7	1	850	.....
3	SLB-8	1	1233	.....

Sizes to and including 6-inch can be furnished.



TYPE SLB THREADLESS ENTRANCE ELBOWS

For Threadless Standard or Thinwall Conduit



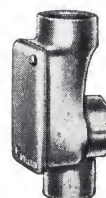
Size	Std. Pkg.	Wt. Lbs. Per 100	For Threadless Standard Conduit	For Thinwall Conduit	Price Each
½	25	66	NSLB-1	YSLB-1	.....
¾	25	85	NSLB-2	YSLB-2	.....
1	10	127	NSLB-3	YSLB-3	.....
1¼	5	250	NSLB-4	YSLB-4	.....
1½	5	345	NSLB-5	YSLB-5	.....
2	1	540	NSLB-6	YSLB-6	.....

TYPE SLB ENTRANCE ELBOWS

With Grounding Hub for ½-inch Threaded Conduit

Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Cat. No.	Price Each
¾	25	100	GSLB-2	.....
1	25	150	GSLB-3	.....
1¼	5	225	GSLB-4	.....

Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Cat. No.	Price Each
¾	25	100	GSLB-22	.....
1	25	150	GSLB-32	.....
1¼	5	225	GSLB-42	.....



KILLARK CONDUIT FITTINGS

SERIES "O"

For Threaded and Threadless Heavywall Conduit
and for Thinwall Conduit

Type OA—Threaded



Type OA—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OA-1	\$0.60	1/2	NOA-1	YOA-1	\$0.70
OA-2	.70	3/4	NOA-2	YOA-2	.90
OA-3	1.00	1	NOA-3	YOA-3	1.20
OA-4	1.60	1 1/4	NOA-4	YOA-4	2.20
OA-5	2.08	1 1/2	NOA-5	YOA-5	3.00
OA-6	4.28	2	NOA-6	YOA-6	5.50
OA-7	8.40	2 1/2	.....	.....	.....
OA-8	10.00	3	.....	.....	.....
OA-9	14.00	3 1/2	.....	.....	.....
OA-10	18.00	4	.....	.....	.....
OA-11	23.00	4 1/2	.....	.....	.....
OA-12	28.00	5	.....	.....	.....
OA-13	40.50	6	.....	.....	.....



Type OB—Threaded



Type OB—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OB-1	\$0.60	1/2	NOB-1	YOB-1	\$0.70
OB-2	.70	3/4	NOB-2	YOB-2	.90
OB-3	1.00	1	NOB-3	YOB-3	1.20
OB-4	1.60	1 1/4	NOB-4	YOB-4	2.20
OB-5	2.08	1 1/2	NOB-5	YOB-5	3.00
OB-6	4.28	2	NOB-6	YOB-6	5.50
OB-7	8.40	2 1/2	.....	.....	.....
OB-8	10.00	3	.....	.....	.....
OB-9	14.00	3 1/2	.....	.....	.....



Type OC—Threaded



Type OC—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OC-1	\$0.80	1/2	NOC-1	YOC-1	\$1.00
OC-2	.90	3/4	NOC-2	YOC-2	1.20
OC-3	1.30	1	NOC-3	YOC-3	1.80
OC-4	2.10	1 1/4	NOC-4	YOC-4	3.00
OC-5	2.80	1 1/2	NOC-5	YOC-5	4.20
OC-6	4.80	2	NOC-6	YOC-6	7.00
OC-7	8.40	2 1/2	.....	.....	.....
OC-8	10.00	3	.....	.....	.....
OC-9	14.00	3 1/2	.....	.....	.....

KILLARK CONDUIT FITTINGS

SERIES "O"

For Threaded and Threadless Heavywall Conduit
and for Thinwall Conduit

Type OE—Threaded



Type OE—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OE-1	\$0.60	1/2	NOE-1	YOE-1	\$0.70
OE-2	.70	3/4	NOE-2	YOE-2	.90
OE-3	1.00	1	NOE-3	YOE-3	1.20
OE-4	1.60	1 1/4	NOE-4	YOE-4	2.20
OE-5	2.08	1 1/2	NOE-5	YOE-5	3.00
OE-6	4.28	2	NOE-6	YOE-6	5.50
OE-7	8.40	2 1/2	.....	.....	.....
OE-8	10.00	3	.....	.....	.....
OE-9	14.00	3 1/2	.....	.....	.....
OE-10	18.00	4	.....	.....	.....
OE-11	23.00	4 1/2	.....	.....	.....
OE-12	28.00	5	.....	.....	.....



Type OLL—Threaded



Type OLL—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OLL-1	\$0.80	1/2	NOLL-1	YOLL-1	\$1.00
OLL-2	.90	3/4	NOLL-2	YOLL-2	1.20
OLL-3	1.30	1	NOLL-3	YOLL-3	1.80
OLL-4	2.10	1 1/4	NOLL-4	YOLL-4	3.00
OLL-5	2.80	1 1/2	NOLL-5	YOLL-5	4.20
OLL-6	4.80	2	NOLL-6	YOLL-6	7.00
OLL-7	10.00	2 1/2	.....	.....	.....
OLL-8	13.00	3	.....	.....	.....
OLL-9	21.00	3 1/2	.....	.....	.....
OLL-10	24.00	4	.....	.....	.....



Type OLR—Threaded



Type OLR—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OLR-1	\$0.80	1/2	NOLR-1	YOLR-1	\$1.00
OLR-2	.90	3/4	NOLR-2	YOLR-2	1.20
OLR-3	1.30	1	NOLR-3	YOLR-3	1.80
OLR-4	2.10	1 1/4	NOLR-4	YOLR-4	3.00
OLR-5	2.80	1 1/2	NOLR-5	YOLR-5	4.20
OLR-6	4.80	2	NOLR-6	YOLR-6	7.00
OLR-7	10.00	2 1/2	.....	.....	.....
OLR-8	13.00	3	.....	.....	.....
OLR-9	21.00	3 1/2	.....	.....	.....
OLR-10	24.00	4	.....	.....	.....

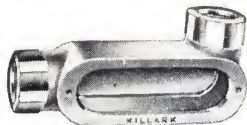
KILLARK CONDUIT FITTINGS

SERIES "O"

For Threaded and Threadless Heavywall Conduit and for Thinwall Conduit



Type OLRL—Threaded



Type OLRL—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OLRL-1	\$0.80	1/2	NOLRL-1	YOLRL-1	\$1.00
OLRL-2	.90	3/4	NOLRL-2	YOLRL-2	1.20
OLRL-3	1.30	1	NOLRL-3	YOLRL-3	1.80
OLRL-4	2.10	1 1/4	NOLRL-4	YOLRL-4	3.00
OLRL-5	2.80	1 1/2	NOLRL-5	YOLRL-5	4.20
OLRL-6	4.80	2	NOLRL-6	YOLRL-6	7.00

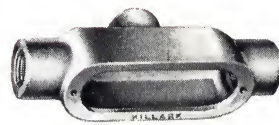


Type OT—Threaded



Type OT—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OT-1	\$0.96	1/2	NOT-1	YOT-1	\$1.30
OT-2	1.14	3/4	NOT-2	YOT-2	1.60
OT-3	1.60	1	NOT-3	YOT-3	2.20
OT-4	2.44	1 1/4	NOT-4	YOT-4	3.80
OT-5	3.38	1 1/2	NOT-5	YOT-5	5.40
OT-6	5.10	2	NOT-6	YOT-6	8.60
OT-7	10.00	2 1/2	-----	-----	-----
OT-8	15.00	3	-----	-----	-----
OT-9	22.00	3 1/2	-----	-----	-----
OT-10	26.00	4	-----	-----	-----



Type OTB—Threaded



Type OTB—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OTB-1	\$0.96	1/2	NOTB-1	YOTB-1	\$1.30
OTB-2	1.14	3/4	NOTB-2	YOTB-2	1.60
OTB-3	1.60	1	NOTB-3	YOTB-3	2.20
OTB-4	2.44	1 1/4	NOTB-4	YOTB-4	3.80
OTB-5	3.38	1 1/2	NOTB-5	YOTB-5	5.40
OTB-6	5.10	2	NOTB-6	YOTB-6	8.60

KILLARK CONDUIT FITTINGS

SERIES "O"

For Threaded and Threadless Heavywall Conduit and for Thinwall Conduit



Type OLB—Threaded



Type OLB—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OLB-1	\$0.80	1/2	NOLB-1	YOLB-1	\$1.00
OLB-2	.90	3/4	NOLB-2	YOLB-2	1.20
OLB-3	1.30	1	NOLB-3	YOLB-3	1.80
OLB-4	2.10	1 1/4	NOLB-4	YOLB-4	3.00
OLB-5	2.80	1 1/2	NOLB-5	YOLB-5	4.20
OLB-6	4.80	2	NOLB-6	YOLB-6	7.00
OLB-7	10.00	2 1/2	-----	-----	-----
OLB-8	13.00	3	-----	-----	-----
OLB-9	21.00	3 1/2	-----	-----	-----
OLB-10	24.00	4	-----	-----	-----
OLB-11	66.00	5	-----	-----	-----
OLB-12	66.00	6	-----	-----	-----



Type OX—Threaded



Type OX—Threadless

Cat. No.	List Price	Size Inches	For Heavywall Conduit	For Thinwall Conduit	Price Each
			Cat. No.	Cat. No.	
OX-1	\$1.20	1/2	NOX-1	YOX-1	\$1.60
OX-2	1.54	3/4	NOX-2	YOX-2	2.20
OX-3	2.10	1	NOX-3	YOX-3	3.00
OX-4	2.80	1 1/4	NOX-4	YOX-4	4.60
OX-5	3.56	1 1/2	NOX-5	YOX-5	6.20
OX-6	7.00	2	NOX-6	YOX-6	11.00

MOGUL STYLE CONDUIT FITTINGS



Type MLB Fittings are intended for use on 4 1/2, 5 and 6-inch threaded conduit where it is necessary to have a right-angle bend. Each fitting comes equipped with cast metal cover and gasket, making it weather-proof.

Size Inches	Cat. No.	Price Each
4 1/2	MLB-11	\$70.00
5	MLB-12	80.00
6	MLB-13	150.00

The design of these fittings makes them suitable for use with two million circular mil cable or smaller.

KILLARK CONDUIT FITTINGS COVERS FOR SERIES "O" CONDUIT FITTINGS



Blank Metal Cover



Porcelain and Composition Cover for 2, 3 or 5 Wires.

Cat. No.	Price Each	Size Inches	Cat. No.	Comp. Price Each	Porc. Price Each
OL-10	\$0.12	1/2	OL-15	\$0.40	\$0.20
OL-20	.16	3/4	OL-25	.60	.30
OL-30	.34	1	OL-35	1.00	.50
OL-450	.48	1 1/4-1 1/2	OL-453	2.40	.72
OL-60	.84	2	OL-63	2.40	1.20
OL-780	1.12	2 1/2-3			
OL-900	1.20	3 1/2-4			

SOLID VELLUMOND GASKET

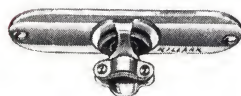
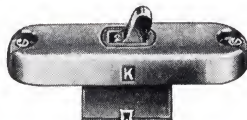


Cat. No.	Size Inches	Price Each
OL-1VG	1/2	\$0.20
OL-2VG	3/4	.20
OL-3VG	1	.30
OL-45VG	1 1/4-1 1/2	.40
OL-6VG	2	.50

COVER WITH SINGLE POLE TOGGLE SWITCH

5-Amp. 250 V., 10-Amp.
125 V.

Cat. No.	Size Inches	Price Each
OSS-1	1/2	\$1.40
OSS-2	3/4	1.46
OSS-3	1	1.68



COVER WITH CORD GRIP

Cat. No.	Size Inches	Price Each
OCG-1	1/2	\$0.60
OCG-2	3/4	.70

PORCELAIN RECEPTACLES

5-Amp. 250 Volt—
10 Amp. 125 Volt

Cat. No.	Size Inches	Price Each
OPR-1	1/2	\$0.90
OPR-2	3/4	1.00
OPR-3	1	1.40



ATTACHMENT PLUG RECEPTACLE

5-Amp. 250 V., 10-Amp.
125 V.



Cat. No.	Size Inches	Price Each
OAPR-1	1/2	\$0.80
OAPR-2	3/4	.90
OAPR-3	1	1.40

DUPLEX ATTACHMENT PLUG RECEPTACLE

5-Amp. 250 V., 10-Amp.
125 V.

Cat. No.	Size Inches	Price Each
ODR-1	1/2	\$1.20
ODR-2	3/4	1.40
ODR-3	1	1.80



KILLARK FLUSH SWITCH FITTINGS

SERIES "FS" AND "FD"

SINGLE GANG, THREADED



Type FS-FD

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FS-1	-----	FD-1	-----
3/4	FS-2	-----	FD-2	-----
1	FS-3	-----	FD-3	-----



Type FSC-FDC

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSC-1	-----	FDC-1	-----
3/4	FSC-2	-----	FDC-2	-----
1	FSC-3	-----	FDC-3	-----



Type FSR-FDR

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSR-1	-----	FDR-1	-----
3/4	FSR-2	-----	FDR-2	-----
1	FSR-3	-----		-----



Type FSS-FDS

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSS-1	-----	FDS-1	-----
3/4	FSS-2	-----	FDS-2	-----



Type FSA-FDA

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSA-1	-----	FDA-1	-----
3/4	FSA-2	-----	FDA-2	-----
1	FSA-3	-----		-----



Type FSL-FDL

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSL-1	-----	FDL-1	-----
3/4	FSL-2	-----	FDL-2	-----
1	FSL-3	-----		-----

KILLARK FLUSH SWITCH FITTINGS

SERIES "FS" AND "FD"

SINGLE GANG, THREADED



Type FSCT-FDCT

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSCT-1	.....	FDCT-1	.....
3/4	FSCT-2	.....	FDCT-2	.....
1	.....	.....	FDCT-3	.....



Type FSCT-FDCT

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSCT-1	.....	FDCT-1	.....
3/4	FSCT-2	.....	FDCT-2	.....
1	.....	.....	FDCT-3	.....



Type FSCT-FDCT

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSCT-1	.....	FDCT-1	.....
3/4	FSCT-2	.....	FDCT-2	.....



Type FSCT-FDCT

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSCT-1	.....	FDCT-1	.....
3/4	FSCT-2	.....	FDCT-2	.....
1	FSCT-3	.....	FDCT-3	.....



Type FSCT-FDCT

Size Inches	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSCT-1	.....	FDCT-1	.....
3/4	FSCT-2	.....	FDCT-2	.....



Type FSCT-FDCT

Inches Size	Shallow		Deep	
	Cat. No.	Price Each	Cat. No.	Price Each
1/2	FSX-1	.....	FDX-1	.....
3/4	FSX-2	.....	FDX-2	.....
1	FSX-3	.....	FDX-3	.....

KILLARK FLUSH SWITCH FITTINGS

COVERS FOR SINGLE GANG SERIES "FS" AND "FD"



FSST



FSRC



FSDR

Cat. No.	Description	Price Each
FSB	Blank Stamped Steel Cover.....	.....
FSST	For Standard Toggle Switches.....	.....
FSRC	For Plug Receptacles.....	.....
FSDR	For Duplex Receptacle.....	.....

FST WEATHERPROOF COVER

Series FS and FD, Single Gang Cast Metal



Cat. No.	Description	Price Each
FST	For Toggle Switch operated by rod.....	.....



FSWCDR WEATHERPROOF COVER

Series FSW, Single Gang Cast Metal

Cat. No.	Description	Price Each
FSWCDR	For Duplex Receptacle.....	.....

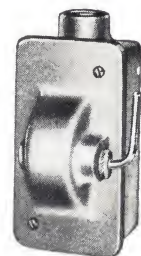
KILLARK FLUSH SWITCH FITTING ASSEMBLIES

SERIES FSW—SINGLE GANG

FLUSH SWITCH FITTING With Weatherproof Cover for Toggle Switch

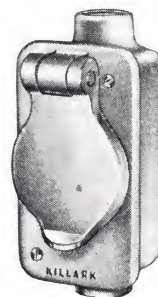
Assembly includes FSWT cover.

Cat. Nos.		Conduit Size	Price Com- plete
Complete Assembly	Fitting		
FSWTE-1	FSWE-1	1/2	.....
FSWTE-2	FSWE-2	3/4	.....
FSWTC-1	FSWC-1	1/2	.....
FSWTC-2	FSWC-2	3/4	.....
FSWTLB-1	FSWLB-1	1/2	.....
FSWTLB-1	FSWLB-1	1/2	.....



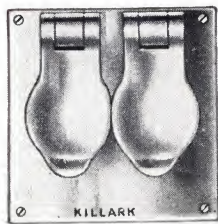
FLUSH SWITCH FITTING With Weatherproof Cover for Receptacle

Assembly includes FSWR cover.

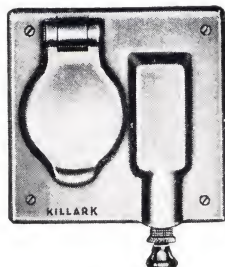


Cat. Nos.		Conduit Size	Price Com- plete
Complete Assembly	Fitting		
FSWRE-1	FSWE-1	1/2	.....
FSWRE-2	FSWE-2	3/4	.....
FSWRC-1	FSWC-1	1/2	.....
FSWRC-2	FSWC-2	3/4	.....
FSWRLB-1	FSWLB-1	1/2	.....
FSWRMLB-1	FSWMLB-1	1/2	.....

KILLARK COVERS FOR FLUSH SWITCH FITTINGS SERIES FS AND FD—TWO-GANG



No. 2FSLC
Cast Metal



No. 2FSLCT
Cast Metal

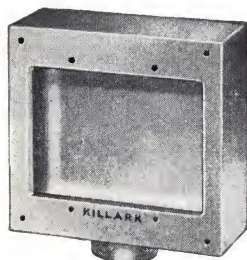
Cat. No.	Description	Wt. Lbs. Per 100	Price Each
2FSLC	For Round Receptacle (furnished with either 1 3/8" or 1 1/2" opening)	200	-----
2FSLCT	For Receptacle and Toggle Switch (furnished with either 1 3/8" or 1 1/2" opening)	200	-----

KILLARK FLUSH SWITCH FITTINGS SERIES FS—TWO-GANG

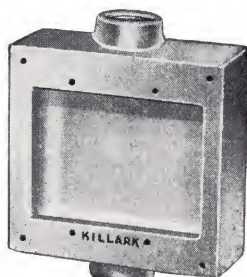
For Threaded Conduit

Made of malleable iron, cadmium plated. Used for the operation of two flush devices. These fittings will take standard brass or bakelite plate; also Killark stamped steel plates.

Series FS, two, three and four-gang Flush Switch Fittings are available. Other hub combinations on request.



Type FS



Type FSC

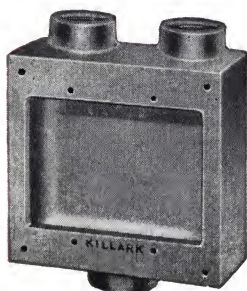
TYPE FS—TWO-GANG

Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
2FS-1	1 1/2	2 1/2	-----
2FS-2	3/4	2 1/2	-----
2FS-3	1	2 3/4	-----

TYPE FSC—TWO-GANG

Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
2FSC-1	1 1/2	2 3/4	-----
2FSC-2	3/4	2 3/4	-----
2FSC-3	1	2 3/4	-----

Tandem two-gang fittings also available.



TYPE FSD—TWO-GANG

Cat. No.	Size Inches	Wt. Lbs. Each	Price Each
2FSD-1	1 1/2	2 3/4	-----
2FSD-2	3/4	2 3/4	-----
2FSD-3	1	3	-----

KILLARK VAPORPROOF LIGHT FITTINGS

SPLICE BOXES



Type VGA



Type VGC



Type VGH



Type VGL



Type VGT



Type VGX

Cat. No.	Conduit Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
VGA-1	1/2	10	11	\$0.90
VGA-2	3/4	10	13 1/2	1.10
VGC-1	1/2	10	11 1/2	1.00
VGC-2	3/4	10	15	1.20
VGH-1	1/2	10	11	.80
VGH-2	3/4	10	13 1/2	1.00
VGL-1	1/2	10	11 1/2	1.10
VGL-2	3/4	10	15	1.30
VGT-1	1/2	10	12	1.40
VGT-2	3/4	10	18	1.60
VGX-1	1/2	10	15	1.70
VGX-2	3/4	10	20	1.90

FIXTURE CAP FOR HOLDING GUARD AND GLOBE

Attached to splice boxes.

Cat. No.	Max. Size of Lamps	Price Each
VFC-100	100 watts	\$2.40
VFC-200	200 watts	3.50



GLOBES

100-Watt for A-21 Lamps

200-Watt for PS-30 Lamps

Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Color	Price Each
VCG-100	12	16	Clear	\$1.60
VCG-200	12	30	Clear	1.60
VGG-100	12	16	Green	3.40
VGG-200	12	30	Green	4.70
VRG-100	12	16	Red	3.40
VRG-200	12	30	Red	4.70
VOG-100	12	16	Orange	3.40
VOG-200	12	30	Orange	4.70
VBG-100	12	16	Blue	3.40
VBG-200	12	30	Blue	4.70
VOPG-100	12	16	Opal	2.20
VOPG-200	12	30	Opal	3.40

KILLARK VAPORPROOF LIGHT FITTINGS

COMPLETE ASSEMBLIES



Assembly complete with outlet box plate, receptacle, globe and guard. For 3/4 or 4-inch outlet boxes.

With Guard					
Size Watts	Cat. No.	Std. Pkg.	Pkg. Wt.	Price Each	
100	VOBG-100	1	3 1/8	\$8.20	
200	VOBG-200	1	4 1/4	10.20	
Less Guard					
100	VOB -100	1	3 1/8	4.60	
200	VOB -200	1	4 1/4	5.70	

COMPLETE ASSEMBLIES

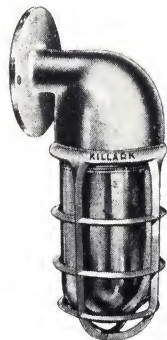
Assembly complete with outlet box plate, wall bracket, receptacle, globe and guard. Wall bracket interchangeable for 100-watt or 200-watt.

With Guard					
Size Watts	Cat. No.	Std. Pkg.	Pkg. Wt.	Price Each	
100	VOBLG100	1	3 5/8	\$9.00	
200	VOBLG200	1	5 1/4	11.00	
Less Guard					
100	VOBL100	1	3 5/8	5.40	
200	VOBL200	1	5 1/4	6.50	



WALL TYPE

Assembly complete with fixture cap, receptacle, globe, guard and mounting plate. For 3/4 or 4-inch outlet boxes (boxes not furnished).



With Globe and Guard				
Size Watts	Conduit Size	Cat. No.	Price Each	
100	1/2	VFBGG-110	\$9.50	
100	3/4	VFBGG-210	9.70	
200	1/2	VFBGG-120	11.00	
200	3/4	VFBGG-220	11.20	

Standard package, 1; weight, 5 pounds.

UNIVERSAL GLOBE AND GUARD FIXTURE CAP



100 Watt



100 Watt



200 Watt

Cat. No.	Conduit Size Inches	Maximum Size Lamp	Price Each
VXA-110	1/2	100	\$3.80
VXA-210	3/4	100	3.90
VXA-310	1	100	4.00
VXA-410	1 1/4	100	4.10
VXA-120	1/2	200	4.70
VXA-220	3/4	200	4.80

Furnished with 5 internal hubs and 4 close-up plugs. This one receptacle can be used with any combination of hubs. Furnished less globe and guard.

KILLARK EXPLOSION-PROOF SWITCHES

SINGLE GANG



XT FITTING—SINGLE GANG

Type XT switches can be furnished with 1/2 or 3/4-inch hubs and with one hub (style 215) or 2 hubs straight through (style 218). Complete with cover.

Cat. No.	Style	Conduit Size	Rating Amperes		Price Each
			125V	250V	
XT-215-11	1-Pole	1/2	20	10	.....
XT-215-12	2-Pole	1/2	.....	20	.....
XT-215-13	3-Way	1/2	20	10	.....
XT-215-21	1-Pole	3/4	20	10	.....
XT-215-22	2-Pole	3/4	.....	20	.....
XT-215-23	3-Way	3/4	20	10	.....
XT-218-11	1-Pole	1/2	20	10	.....
XT-218-12	2-Pole	1/2	.....	20	.....
XT-218-13	3-Way	1/2	20	10	.....
XT-218-21	1-Pole	3/4	20	10	.....
XT-218-22	2-Pole	3/4	.....	20	.....
XT-218-23	3-Way	3/4	20	10	.....

TYPE XPB FITTING

Furnished with quick make and break push button switch. Green button for start, red button for stop, with clear indications on label plate. Furnished complete with cover.



Cat. No.	Style	Conduit Size	Rating Amperes		Price Each
			125V	250V	
XPB-215-11	1-Pole	1/2	20	10	.....
XPB-215-12	2-Pole	1/2	.....	20	.....
XPB-215-13	3-Way	1/2	10	5	.....
XPB-215-21	1-Pole	3/4	20	10	.....
XPB-215-22	2-Pole	3/4	.....	20	.....
XPB-215-23	3-Way	3/4	10	5	.....
XPB-218-11	1-Pole	1/2	20	10	.....
XPB-218-12	2-Pole	1/2	.....	20	.....
XPB-218-13	3-Way	1/2	10	5	.....
XPB-218-21	1-Pole	3/4	20	10	.....
XPB-218-22	2-Pole	3/4	.....	20	.....
XPB-218-23	3-Way	3/4	10	5	.....

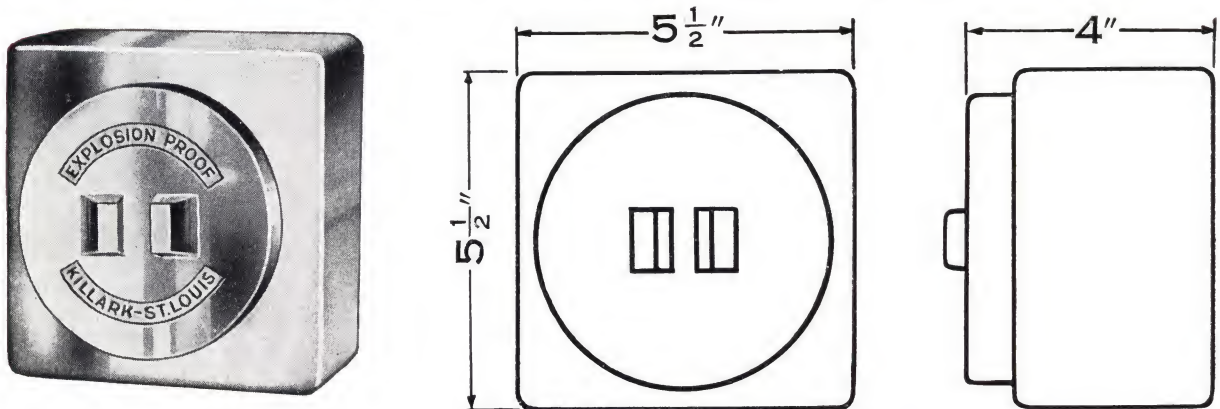
TYPE XPBM FITTING

Furnished with either double button or single button momentary contact switches. Complete with cover.

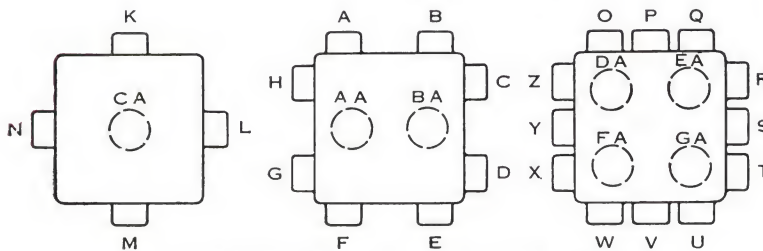
Cat. No.	Conduit Size	Buttons	Price Each
XPBM-215-11	1/2	{ 1 N.C. Stop 1 N.O. Start	.....
XPBM-215-21	3/4	{ 1 N.C. Stop 1 N.O. Start	.....
XPBM-215-12	1/2	2 N.C. Stop	.....
XPBM-215-22	3/4	2 N.C. Stop	.....
XPBM-215-13	1/2	2 N.O. Start	.....
XPBM-215-23	3/4	2 N.O. Start	.....
XPBM-218-11	1/2	{ 1 N.C. Stop 1 N.O. Start	.....
XPBM-218-21	3/4	{ 1 N.C. Stop 1 N.O. Start	.....
XPBM-218-12	1/2	2 N.C. Stop	.....
XPBM-218-22	3/4	2 N.C. Stop	.....
XPBM-218-13	1/2	2 N.O. Start	.....
XPBM-218-23	3/4	2 N.O. Start	.....

KILLARK EXPLOSION-PROOF CONDUIT FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II, Group G Locations



Type GRD has a Screw Cover. Furnished with Threaded Internal Hubs or Union Hubs
Body and Cover Without Hubs — \$2.00 list



(Hubs Extended for Illustration Purposes Only)

The sketches to the left show the locations at which the various sized hubs can be placed. Each order for this series of fittings should clearly indicate by letters, at what position the conduit hubs should be located, and also what size and kind of hubs are wanted. The symbol for the various sizes and kinds of hubs will be found in the schedule below.

Note: Where only one hub is required on a side, it will be located in the center, unless otherwise specified.

THREADED INTERNAL HUBS AND UNION HUBS FOR TYPE GRD Sizes In Which Hubs Can Be Furnished

Locations	Union Hubs	Threaded Internal Hubs
A-B-C-D-E-F-G-H	$\frac{1}{2}$ – $\frac{3}{4}$ –1 Inch	$\frac{1}{2}$ – $\frac{3}{4}$ –1–1 $\frac{1}{4}$ Inch
K-L-M-N	$\frac{1}{2}$ – $\frac{3}{4}$ –1–1 $\frac{1}{4}$ Inch	$\frac{1}{2}$ – $\frac{3}{4}$ –1–1 $\frac{1}{4}$ Inch
O-P-Q-R-S-T-U-V-W-X-Y-Z .....	.....	$\frac{1}{2}$ – $\frac{3}{4}$ Inch
AA-BA	$\frac{1}{2}$ – $\frac{3}{4}$ –1 Inch	$\frac{1}{2}$ – $\frac{3}{4}$ –1–1 $\frac{1}{4}$ –1 $\frac{1}{2}$ –2 Inch
CA	$\frac{1}{2}$ – $\frac{3}{4}$ –1–1 $\frac{1}{4}$ –1 $\frac{1}{2}$ –2 Inch	$\frac{1}{2}$ – $\frac{3}{4}$ –1–1 $\frac{1}{4}$ –1 $\frac{1}{2}$ –2 Inch
DA-EA-FA-GA	$\frac{1}{2}$ – $\frac{3}{4}$ –1 Inch	$\frac{1}{2}$ – $\frac{3}{4}$ –1 Inch

Threaded Hubs			Union Hubs		
Symbol No.	Size, Inches	List, Each	Symbol No.	Size, Inches	List, Each
1	$\frac{1}{2}$	\$1.20	11	$\frac{1}{2}$	\$2.00
2	$\frac{3}{4}$	1.30	12	$\frac{3}{4}$	2.00
3	1	1.50	13	1	2.40
4	1 $\frac{1}{4}$	1.80	14	1 $\frac{1}{4}$	3.50
5	1 $\frac{1}{2}$	2.30	15	1 $\frac{1}{2}$	6.00
6	2	3.00	16	2	8.00

For example: If you wish a fitting with a 1 $\frac{1}{4}$ " Upper Union Hub and 2 Lower $\frac{3}{4}$ " Threaded Hubs it would be called Type GRD with K-14 and FE-2 Hubs, price: \$2.00 plus \$1.75, plus \$1.30 or a total of \$5.05.

KILLARK EXPLOSION-PROOF FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II
Group G Locations

TYPE GRS SCREW COVER FITTINGS



Universal type of explosion-proof fitting with seven standard 3/4-inch hubs. Unused hubs are shut off with close-up plugs. A hub in the back can also be furnished. A union connector can be inserted in any hub to take 1/2-inch or 3/4-inch conduit.

Cat. No.	Hubs, Size	Wt. Lbs. Each	Price Each
GRS	(7)—3/4 inch	1 1/2	\$5.80
GRSA	(8)—3/4" One Hub in Back	1 1/2	5.80

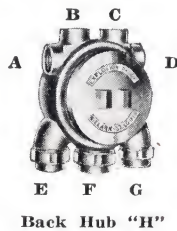
TYPE GESMU SCREW COVER FITTING

Roomy junction box with 1-inch center union hub. Upper hubs threaded, union hubs on lower side.

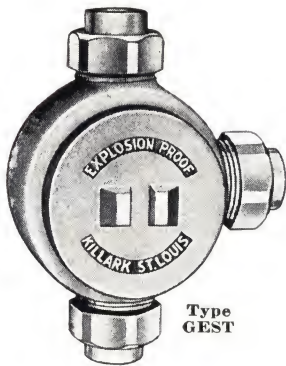
Threaded Hubs—A-B-C-D-H-3/4" only.

Union Hubs—E-G-1/2" or 3/4"; F-1" only.

Furnished with four close-up plugs.



Cat. No.	Hubs, Size	Wt. Lbs. Each	Price Each
GESMU	Threaded Hubs (5)—1/4" (2)—1/2" or 3/4" (1)—1"	5	\$7.90

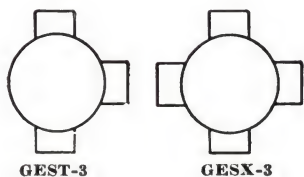
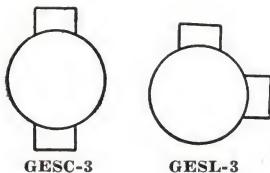


SERIES GES (5-inch Diameter)

A round explosion-proof fitting 5 inches in diameter. Furnished with threaded screw cover.

Made of brass. 1-inch union hubs in any or all four directions.

Cat. No.	Size	Price Each
GES-1	1/2	\$6.20
GES-2	3/4	6.20
GES-3	1	6.20
GESL-1	1/2	6.20
GESL-2	3/4	6.20
GESL-3	1	6.20



Cat. No.	Size	Price Each
GEST-1	1/2	\$7.60
GEST-2	3/4	7.60
GEST-3	1	7.60
GESX-1	1/2	9.00
GESX-2	3/4	9.00
GESX-3	1	9.00

KILLARK EXPLOSION-PROOF FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II
Group G Locations

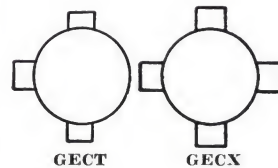
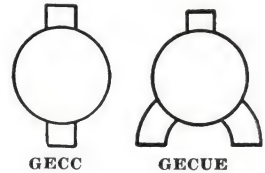
SERIES GEC — (3 3/4-INCH DIAMETER)



GECME

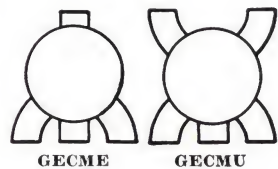
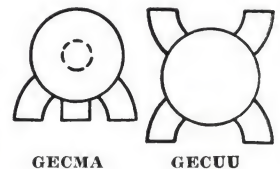
Round explosion-proof fittings, 3 3/4 inches in diameter. Made with a threaded screw cover. Number of union hubs up to three pointed downward and up to two pointed upward. Hubs are equipped with rings for either 1/2-inch or 3/4-inch conduit. Rings are interchangeable, so that by removing a 1/2-inch ring and substituting a 3/4-inch ring, union hubs can be changed from 1/2-inch to 3/4-inch and vice versa. These fittings have threaded brass covers.

Cat. No.	Size	Price Each
GECC-1	1/2	\$5.20
GECC-2	3/4	5.20
GECUE-1	1/2	6.10
GECUE-2	3/4	6.10



Cat. No.	Size	Price Each
GECT-1	1/2	\$6.10
GECT-2	3/4	6.10
GECX-1	1/2	7.00
GECX-2	3/4	7.00

Cat. No.	Size	Price Each
GECMA-1	1/2	\$7.00
GECMA-2	3/4	7.00
GECUU-1	1/2	7.00
GECUU-2	3/4	7.00



Cat. No.	Size	Price Each
GECME-1	1/2	\$7.00
GECME-2	3/4	7.00
GECMU-1	1/2	7.90
GECMU-2	3/4	7.90

Three standard hubs on top; three union hubs on bottom.



Hub arrangements shown above are regularly carried in stock. Variations of these hub arrangements can be supplied on order.

Limit of conduit size in this series, 3/4-inch.

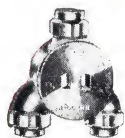
Shipping weight: 2 hubs, 3 lbs.; 3 hubs, 3 1/2 lbs.; 4 hubs, 3 3/4 lbs.; 5 hubs, 3 3/4 lbs.

Special fittings supplied on order.

KILLARK EXPLOSION-PROOF FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II
Group G Locations

SERIES GE—(3-inch Diameter)



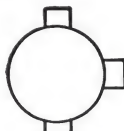
Type GEUE

Round explosion-proof fittings, 3 inches in diameter. One or two union hubs pointing up or down. Each hub has a 1/2-inch or 3/4-inch threaded ring. Rings are interchangeable so that one fitting may be used on 1/2- or 3/4-inch conduit. These fittings have threaded brass covers.

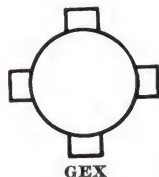
Cat. No.	Size	Shpg. Wt.	Price Each
GEC-1	1/2	1 1/4	\$4.50
GEC-2	3/4	1 1/4	4.50
GET-1	1/2	1 3/8	5.40
GET-2	3/4	1 3/8	5.40



GEC



GET



GEX



GEUE

Cat. No.	Size	Shpg. Wt.	Price Each
GEX-1	1/2	1 1/2	\$6.30
GEX-2	3/4	1 1/2	6.30
GEUE-1	1/2	1 3/8	5.40
GEUE-2	3/4	1 3/8	5.40



GEUEA



GEUU

Cat. No.	Size	Shpg. Wt.	Price Each
GEUEA-1	1/2	1 1/2	\$6.30
GEUEA-2	3/4	1 1/2	6.30
GEUU-1	1/2	1 3/8	6.30
GEUU-2	3/4	1 3/8	6.30

SERIES GEM—(2 1/2-inch Diameter)



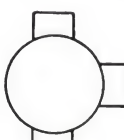
Type GEMX

Round explosion-proof fitting, 2 1/2 inches in diameter. Has a screw cover. One hub in any or all four directions or in back. Made with 1/2- or 3/4-inch standard threaded hubs, but not with union hubs. A switch can be supplied with these fittings.

Cat. No.	Size	Shpg. Wt.	Price Each
GEMC-1	1/2	1 1/4	\$3.10
GEMC-2	3/4	1 1/4	3.30
GEMT-1	1/2	1 3/8	3.30
GEMT-2	3/4	1 3/8	3.60



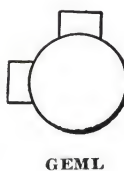
GEMC



GEMT



GEMX

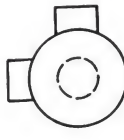


GEML

Cat. No.	Size	Shpg. Wt.	Price Each
GEMX-1	1/2	1 1/2	\$3.50
GEMX-2	3/4	1 1/2	3.90
GEML-1	1/2	1 1/4	3.10
GEML-2	3/4	1 1/4	3.30

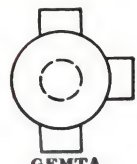


GEMCA



GEMLA

Cat. No.	Size	Shpg. Wt.	Price Each
GEMCA-1	1/2	1 3/8	\$3.30
GEMCA-2	3/4	1 3/8	3.60
GEMLA-1	1/2	1 3/8	3.30
GEMLA-2	3/4	1 3/8	3.60



GEMTA



GEMEA

Cat. No.	Size	Shpg. Wt.	Price Each
GEMTA-1	1/2	1 1/2	\$3.50
GEMTA-2	3/4	1 1/2	3.90
GEMEA-1	1/2	1 1/4	3.10
GEMEA-2	3/4	1 1/4	3.30

KILLARK EXPLOSION-PROOF FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II
Group G Locations

SERIES X (Rectangular)

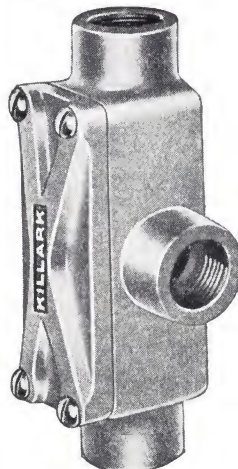
A rectangular explosion-proof fitting. It has a flat cast cover held on by four machine screws.

Furnished with any number of standard hubs from one to five. Made for 1/2-inch and 3/4-inch conduit. Also 1-inch in C, LB and T types.

Hub arrangements shown in listing below are regularly carried in stock. Variations of these hub arrangements can be supplied on order.

Shipping weight: 2 hubs 1 1/4 lbs.; 3 hubs 1 3/8 lbs.; 4 hubs 1 1/2 lbs.; 5 hubs 1 5/8 lbs.

Special fittings supplied on order.



Type XT

Cat. No.	Size	Price Each
XC-1	1/2	\$1.76
XC-2	3/4	2.88
XC-3	1	4.32

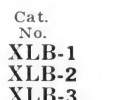


Type XC



Type XLL

Cat. No.	Size	Price Each
XLL-1	1/2	\$1.76
XLL-2	3/4	2.88



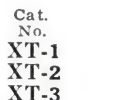
Type XLB

Cat. No.	Size	Price Each
XLB-1	1/2	\$1.76
XLB-2	3/4	2.88
XLB-3	1	4.32



Type XLR

Cat. No.	Size	Price Each
XLR-1	1/2	\$1.72
XLR-2	3/4	2.88



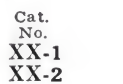
Type XT

Cat. No.	Size	Price Each
XT-1	1/2	\$1.88
XT-2	3/4	3.08
XT-3	1	5.04



Type XTA

Cat. No.	Size	Price Each
XTA-1	1/2	\$2.18
XTA-2	3/4	3.28



Type XX

Cat. No.	Size	Price Each
XX-1	1/2	\$2.18
XX-2	3/4	3.28



Type XXA

Cat. No.	Size	Price Each
XXA-1	1/2	\$3.24
XXA-2	3/4	3.88

KILLARK EXPLOSION-PROOF FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II
Group G Locations

CLOSE COUPLED ELBOWS

One Hub Male — One Hub Female

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
90° Elbows				
MF-90	1/2	7/16	34	\$50.00
MF-90-2	3/4	5/8	50	70.00
45° Elbows				
MF-45	1/2	7/16	34	40.00
MF-45-2	3/4	5/8	50	50.00



CLOSE COUPLED ELBOWS

Both Hubs Female

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
90° Elbows				
FF-90	1/2	7/16	34	\$42.00
FF-90-2	3/4	5/8	50	60.00
45° Elbows				
FF-45	1/2	7/16	34	40.00
FF-45-2	3/4	5/8	50	50.00



90 DEGREE ELBOW

Close coupled, both hubs male.

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
MM-90	1/2	7/16	34	\$50.00



90° MEDIUM SWEEP ELBOW

One hub male, one hub female.

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
BL-1	1/2	1	28	\$62.00
BL-2	3/4	1 1/2	43	90.00
BL-3	1	1 3/4	100	130.00
BL-4	1 1/4	2	130	170.00



90° MEDIUM SWEEP ELBOW With Flange

One hub male, one hub female.
Made in 1-inch size only.

Cat. No.	Conduit Size	Radius	Wt. Lbs. Per 100	Price Per 100
BLF-3	1	1 3/4	100	\$130.00



UNIONS



UF-Female



UM-Female-Male

Meet with latest Underwriters' requirements.

Cat. No.	Hubs Female	Price Each	Cat. No.	Hubs Female Male	Price Each
UF-1	1/2 — 1/2	\$1.00	UM-1	1/2 1/2	\$1.00
UF-2	3/4 — 3/4	1.30	UM-2	3/4 3/4	1.30
UF-12	1/2 — 3/4	1.00	UM-3	1 1	1.90
UF-3	1 — 1	1.90	UM-12	1/2 3/4	1.00
UF-4	1 1/4 — 1 1/4	3.80	UM-21	3/4 1/2	1.30
UF-5	1 1/2 — 1 1/2	4.60	UM-4	1 1/4 1 1/4	3.80
			UM-5	1 1/2 1 1/2	4.60

KILLARK EXPLOSION-PROOF FITTINGS FOR HAZARDOUS PLACES

Listed as Standard for Class I, Group D Locations
Class I, Group C Locations; Class II
Group G Locations

90° ANGLE UNION CONNECTOR

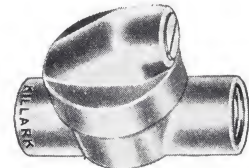


Hubs Female Male	Wt. Per 100	Cat. No.	Price Each
1/2 1/2	100	UML-1	\$2.40
3/4 3/4	100	UML-2	2.80
1/2 3/4	110	UML-12	2.80
1/4 1/2	110	UML-21	2.80

SEALING COMPOUND FITTINGS



Type EY
For Use Only in Vertical Position



Type EYS
For Use in either Vertical or Horizontal Position

Sealing Compound fittings are used to prevent the spread of an explosion from one fitting to another through the conduit. These fittings are supplied with a sealing compound in the form of a powder, which hardens when water is added.

Cat. No.	Conduit Size	Overall Length	Overall Width	Wt. Lbs. Per 100	Price With Compound
EY-1	1/2	2 1/2	2 1/8	50	\$1.30
EY-2	3/4	2 1/2	2 1/4	75	1.60
EY-3	1	4 1/8	3 3/8	125	2.10
EY-4	1 1/4	5 1/8	3 3/4	150	2.60
EY-5	1 1/2	5 1/2	4 1/2	175	3.90
EYS-1	1/2	3 1/4	1 1/8	100	2.10
EYS-2	3/4	3 1/4	1 1/8	125	2.60
EYS-3	1	4 1/8	2 1/8	225	3.70

90° SEALING ELBOW

A combination of capped elbow and sealing fitting. Has male and female hubs.



Cat. No.	Conduit Size	Wt. Lbs. Per 100	Price Each
EYMF-1	1/2	38	\$1.00
EYMF-2	3/4	50	1.30

TYPE SC SEALING COMPOUND

Cat. No.	Description	Price Each
SC-2-Oz.	2-oz. Container	\$0.50
SC-8-Oz.	8-oz. Container	.80
SC-1-LB.	1-lb. Container	1.30
SC-10-Lb.	10-lb. Container	9.00



ADAPTERS

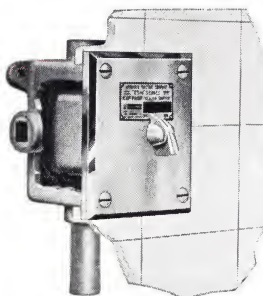


Cat. No.	Size Male Female	Wt. Lbs. Per 100	Price Each
ADUP-12	1/2 3/4	40	\$0.50
ADUP-23	3/4 1	50	.50

ESH SERIES EXPLOSION-PROOF SEALED HOSPITAL SWITCH UNILET

(Patent Pending)

CLASS I, GROUPS C AND D

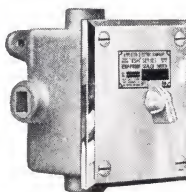


Type "ESHS" Single-gang
Explosion-proof Sealed
Hospital Switch Unilet

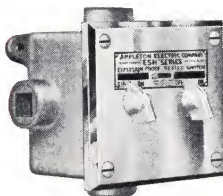
Designed for use in hospital operating rooms. These sealed switches are made in accordance with requirements for hazardous locations. The switching device is sealed with wire leads furnished for connection purposes. The splices are made in a Unilet body making the complete assembly an explosion-proof unit without the use of Sealing Unilets.

TYPE ESHS SINGLE-GANG

Unilet bodies have one 1/2-inch conduit hub on each of four sides. One hub is open and the other three have close-up plugs. S-P., 10 A. 125 V.; 5 A. 250 V. D-P., 10 A. 250 V.



Complete— with Chrome Cover		Body Only—with Temporary Cover		Switch Equip- ment Only— Chrome Finish		Switch Equip- ment Only— Cadmium Finish†	
Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
28215	•	28230	•	28245	•	28260	•
28216	•	28231	•	28246	•	28261	•



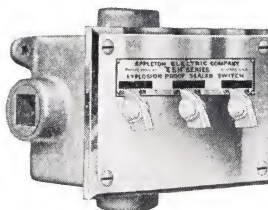
TYPE ESHS TWO-GANG

Unilet bodies have one 3/4-inch conduit hub on each of four sides. One hub is open and the other three have close-up plugs. S-P., 10 A. 125 V.; 5 A. 250 V. D-P., 10 A. 250 V.

Complete— with Chrome Cover		Body Only—with Temporary Cover		Switch Equip- ment Only— Chrome Finish		Switch Equip- ment Only— Cadmium Finish†	
Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
28220	•	28235	•	28250	•	28265	•
28221	•	28236	•	28251	•	28266	•

TYPE ESHE 3-GANG

Unilet bodies have one 1-inch conduit hub on each of four sides. One hub is open and the other three have close-up plugs. S-P. 10 A. 125 V.; 5 A. 250 V. D-P. 10 A. 250 V.



Complete— with Chrome Cover		Body Only—with Temporary Cover		Switch Equip- ment Only— Chrome Finish		Switch Equip- ment Only— Cadmium Finish†	
Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
28225	•	28240	•	28255	•	28270	•
28226	•	28241	•	28256	•	28271	•

Any combination of single, double, 3-way, 4-way and momentary switches can be furnished upon request. Prices on application.

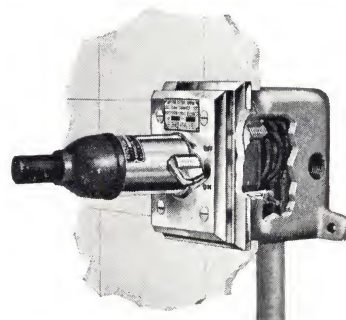
†These are available in cadmium finish for use in industrial installations where a highly polished chrome cover is not required.

•See Price List

ESH SERIES EXPLOSION-PROOF SEALED HOSPITAL RECEPTACLE AND PLUG

(Patent Pending)

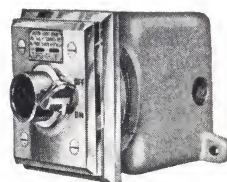
CLASS I, GROUPS C AND D



Type "ESHR" Explosion-proof
Sealed Hospital Receptacle
(sectional view)

Designed for use in hospital rooms. Made in accordance with requirements for hazardous locations. All wire leads are sealed and connections made in Unilet body furnished. Adjustments for surface mounting is provided through means of an adjustable sleeve in Unilet.

The receptacle member is a sealed unit with an inter-locking switch whereby the plug may be inserted or withdrawn only when switch is in "off" position. Likewise, the switch handle cannot be moved to the "on" position until plug is seated and in electrical contact with the receptacle. This device being a sealed Explosion-proof unit, does not require the use of additional Sealing Unilets.



TYPE ESHR

Unilet body is furnished with two openings on one side and one opening on each of three sides for 1/2-inch rigid conduit (heavy-wall). Four of the openings have close-up plugs.

Rating: 2-wire, 3-pole, 10 Amp. 125 volt, 1/2 H.P. 115 volt.

Complete— with Chrome Cover		Body Only—with Temporary Cover		Switch Equip- ment Only— Chrome Finish		Switch Equip- ment Only— Cadmium Finish†	
Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
28280	•	28281	•	28282	•	28283	•

†These are available in cadmium finish for use in industrial installations where a highly polished chrome cover is not required.

Finish: Covers are chromium plated.

TYPE CPL PLUGS

For Use with ESHR Receptacle

2-wire, 3-pole, 10 Amp. 125 volt, 5 Amp. 250 volt, 3 Amp. 460 volt, 2 Amp. 600 volt, 1/2 H.P. 115-230-460 volt A.C.

Cat. No.	Size Cable	Price Each
28285	No. 14	•
28286	No. 16	•
28287	No. 18	•

Finish: Plugs are polished aluminum.

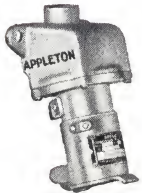
•See Price List



“DTQ” SERIES DUST-TIGHT DEAD-END CIRCUIT BREAKING PLUGS AND RECEPTACLES

FOR USE IN HAZARDOUS LOCATIONS

Class II, Group G



With Lift
Cover Housing

Made in two styles. Style 1 is for use in ordinary installations where the plug sleeve and the receptacle housing may serve as a safety circuit. Provision is made for connecting the safety circuit to the plug sleeve.

Style 2 has an extra pole for grounding and is for use in places where excessive corrosion exists. Under such or similar conditions the Style 1 would not be safe.

Consequently, the safety circuit of Style 2 is positive through the use of the extra pole. The latter is made longer so that contact between the plug and receptacle is made first and broken last on this safety circuit. On both Style 1 and Style 2, the safety circuit contact in the plug is bonded to the plug sleeve, and in the receptacle, to the housing or Unilet.

TYPE DTQEE	Rating	Size	STYLE 1 Grounded Through Shell		STYLE 2 Grounded Through Shell & Extra Pole	
			2-Wire, 2-Pole Cat. No.	List Each	2-Wire, 3-Pole Cat. No.	List Each
15-Amp.	1/2		54000	•	54020	•
2-Wire	3/4		54001	•	54021	•
440-V. AC	1		54002	•	54022	•
15-Amp.	1/2		-----	•	54100	•
3-Wire	3/4		-----	•	54101	•
440-V. AC	1		-----	•	54102	•
30-Amp.	1/2		2-Wire, 2-Pole	•	2-Wire, 3-Pole	•
2-Wire	3/4		54130	•	54150	•
440-V. AC	1		54131	•	54151	•
30-Amp.	1		3-Wire, 3-Pole	•	3-Wire, 4-Pole	•
3-Wire	1 1/4		54200	•	54220	•
440-V. AC	1 1/4		54201	•	54221	•

“DTCP” SERIES DEAD-END PLUGS

Style 1 Plugs fit only Style 1 receptacles. Style 2 Plugs fit only Style 2 receptacles. These Plugs are without Clamping Nut, with Rubber Bushing.



30-Ampere Dia. Cable	2-Wire, 2-Pole		2-Wire, 3-Pole	
	Cat. No.	List Each	Cat. No.	List Each
.250 to .375	54040	•	-----	•
.375 to .500	54041	•	-----	•
.500 to .625	54042	•	54062	•
.625 to .750	54043	•	54063	•
.375 to .500	-----	•	3-Wire, 3-Pole	•
.500 to .625	-----	•	54120	•
.625 to .750	-----	•	54121	•
.750 to .875	-----	•	54122	•
.875 to 1.000	-----	•	2-Wire, 3-Pole	•
.500 to .625	54170	•	54180	•
.625 to .750	54171	•	54181	•
.750 to .875	54172	•	54182	•
.875 to 1.000	54173	•	54183	•
.500 to .625	3-Wire, 3-Pole	•	3-Wire, 4-Pole	•
.625 to .750	54240	•	54250	•
.750 to .875	54241	•	54251	•
.875 to 1.000	54242	•	54252	•
	54243	•	54253	•

Cadmium finish is the standard finish for Unilets.

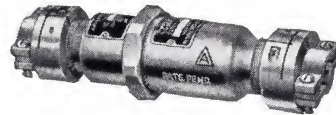
Dead-End Receptacle Housings and Plugs are Aluminum.

•See Net Price Sheet

APPLETON EXTENSION CABLE CONNECTORS

TYPE BRC EXTENSION CABLE CONNECTORS

For Flexible Cable



Electric power for portable electrical apparatus is generally supplied from a plug receptacle source of current. In the case of small devices, the usual method is to attach a portable cord or cable permanently to the portable device and at the other end, the cable may terminate in a suitable plug to be inserted in a receptacle.

Where portable apparatus taking large current is used, the portable cable becomes large and depending upon the length of cable used, this usually becomes very difficult and almost impossible to handle. This difficulty may be overcome by making up the cable in several suitable lengths, using the Type “BRC” Connector at one end and a plug at the other end.

As each cable requires both a plug and a receptacle, the connectors are listed complete as shown in illustration.

Furnished with gland nuts, rubber bushings and cord grips with cast aluminum handle.

20 Amp., 125 V. D.C.—30 Amp., 230 V. A.C.

Cat. No.	Poles	Diam. Cable	Std. Pkg.	Pkg. Wt.	Price Each
9751	2	.500 to .625	10	33	•
9752	2	.625 to .750	10	33	•
9753	2	.750 to .875	10	33	•
9755	3	.500 to .625	10	35	•
9756	3	.625 to .750	10	35	•
9757	3	.750 to .875	10	35	•
9758	3	.875 to 1.000	10	35	•
9761	4	.500 to .625	10	37	•
9762	4	.625 to .750	10	37	•
9763	4	.750 to .875	10	37	•
9764	4	.875 to 1.000	10	37	•

TYPE BR PLUG RECEPTACLES (FEMALE CONTACTS)



For Types BRD, BRG, BRY and SQE
Plug Receptacle Housings

Cat. No.	Amperes—		Poles	Std. Pkg.	Pkg. Wt.	Price Each
	125 V. D.C.	230 V. A.C.				
9742	20	30	2	25	5	•
9743	20	30	3	25	6	•
9744	20	30	4	25	7	•

TYPE BPR PLUG RECEPTACLES (MALE CONTACTS)

For Type BP Plugs

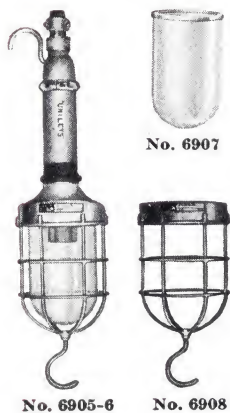


Cat. No.	Amperes—		Poles	Std. Pkg.	Pkg. Wt.	Price Each
	125 V. D.C.	230 V. A.C.				
9772	20	30	2	25	7	•
9773	20	30	3	25	8	•
9774	20	30	4	25	9	•

•See Price List

EVDT DUST-TIGHT HAND LAMP

For Class II, Group G Locations



Especially constructed for use in dust-laden, hazardous locations. In the design of this lamp, particular care was taken to protect the insulating characteristics of type S rubber covered cord from heat concentration. This point and other requirements of the Underwriters' Laboratories for Class II, Group G locations have been strictly observed throughout.

Relamping is probably the outstanding feature of this lamp. Bulbs are quickly and easily renewed by merely turning out the handle unit which carries the entire socket-lamp assembly. Designed to take up to and including 40-watt lamps.

Dust-Tight Lamp

Cat. No.	Description	Diam. of Cable Inches	Price Each
A-5	Type EVDT Hand Lamp.	.375 to .500	•
A-6	Type EVDT Hand Lamp.	.500 to .625	•
A-7	Clear Globe only		•
A-8	Aluminum and Steel Guard		•

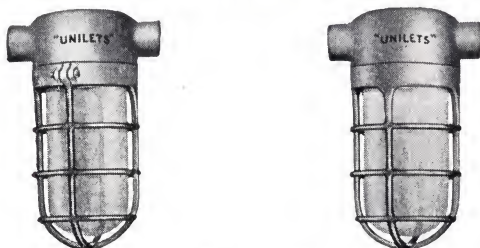
Cadmium is standard finish.

•See Price List

CONVERTIBLE VAPORTIGHT FIXTURES WITH EITHER CLAMP OR SCREW GUARDS

For Use with Rigid Conduit (Heavy-Wall)

Take Form 100 and Form 200 accessories and parts. Furnished with No. 1194 porcelain receptacle and cork gasket.

TYPE VC VAPORTIGHT UNILETS

Form 100			Form 200		
CLAMP TYPE GUARD			SCREW TYPE GUARD		
Cat. No.	Size Inches	Price Each	Cat. No.	Size Inches	Price Each
With Straight Globe and Guard					
67060	1/2	•	68060	1/2	•
67061	3/4	•	68061	3/4	•
67062	1	•	68062	1	•
Without Globe and Guard					
67065	1/2	•	68065	1/2	•
67066	3/4	•	68066	3/4	•
67067	1	•	68067	1	•
Form 200					
With Straight Globe and Guard					
67070	1/2	•	68070	1/2	•
67071	3/4	•	68071	3/4	•
67072	1	•	68072	1	•
Without Globe and Guard					
67075	1/2	•	68075	1/2	•
67076	3/4	•	68076	3/4	•
67077	1	•	68077	1	•

APPLETON SPECIAL "REA" CONDUIT FITTINGS

FOR RURAL ELECTRIFICATION WIRING (Weathertight)

Appleton Special "REA" Conduit Fittings (Weatherproof) have been designed expressly to meet the needs for inexpensive, well-made Lighting Fixtures, Wall Receptacles and Switches (all weathertight) for use in R.E.A. wiring.

For lighting basements, woodsheds, garages, poultry houses, cow-stables, milk houses, shops, pump-houses and numerous other places about the modern, up-to-the-minute farm buildings and yards.

LIGHTWEIGHT LIGHTING FIXTURES**TYPE "RVA"**

With Globe, No Guard

Hub at top tapped for 1/2-inch Rigid Conduit (heavy-wall).



Cat. No.	Size Inch	Watts	Wt. Lbs. Each
CF-REA1	1/2	100	3

TYPE "ROB"

With Globe, No Guard

With 4-inch square plate for 4-inch Square or 3 1/4 and 4-inch Octagonal Outlet Boxes.

Cat. No.	Style Plate	Watts	Wt. Lbs. Each
CF-REA2	4" Sq.	100	3

**TYPE "RBVA"**

With Globe, No Guard

With bracket for mounting on 3 1/4 or 4-inch Octagonal Outlet Boxes. Screw holes for 4-inch Octagonal Box and fastening strap for 3 1/4-inch Octagonal Boxes.



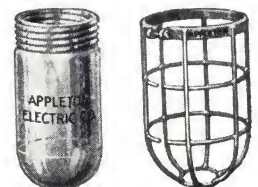
Cat. No.	Size Watts	Wt. Lbs. Each
CF-REA20	100	4

GLOBE AND GUARD

Cat. No.	Watts	Wt. Lbs. Each
CF-REA33	100	1 1/4

Wire Guard

CF-REA3	100	3
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**STANDARD DOME REFLECTOR AND HOLDER**

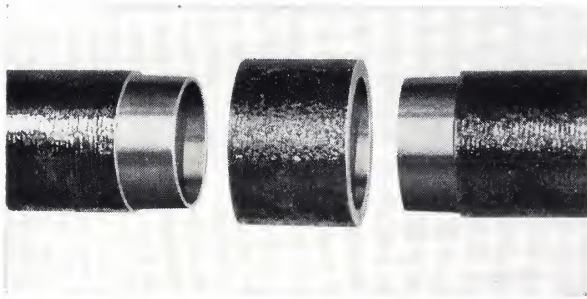
When reflector is used, reflector holder clamps onto "RVA" and "ROB" Lighting Fixtures and guard cannot be used.

**For REA-1 and REA-2**

Cat. No.	Watts	Wt. Lbs. Each
CF-REA21	100	4

All above packed one to a carton.
Schedule "CF" Discounts

L-M FIBRE CONDUIT



L-M Type I Fibre Conduit is especially designed for permanent underground installation with concrete encasement.

This conduit is composed of cellulose wood fibres impregnated with ever-lasting tar pitch. It is highly resistant to water, corrosion, moisture and is chemically inert providing true and lasting cable protection.

The bore of L-M fibre conduit is perfectly smooth to prevent all possibility of injury to cable sheath. The joints and fittings are accurately machined making the entire installation waterproof.

All lengths and fittings are uniform in construction.

L-M Fibre Conduit is light in weight with high tensile strength permitting easy handling and rapid installation with a minimum of breakage.

L-M offers a complete line of equipment for fibre conduit installation. Complete details and specifications sent upon request.

HARRINGTON (Tapered Sleeve) JOINT

Furnished in 5 foot lengths. One coupling is included with each length.

Inside Diameter Inches	Price Per Foot	Price Each Extra Coupling
2
3
4
4½
5
6

Can be furnished in 8-foot lengths in 3, 4 and 4½ inch sizes.

STYLE 116—45° AND 90° BENDS

One coupling is included with each Bend.

Inside Diameter Inches	Radius Inches	20 Inch "S" Bend Radius	Price Each
2	18-24-36	36	.....
3	24-36	36	.....
4	36	36	.....
4½	36	36	.....
5	36	36	.....
6	36	36	.....

(Note: STYLE 130 20-inch 'S' BENDS furnished in all sizes at same price as STYLE 116 Bends.)

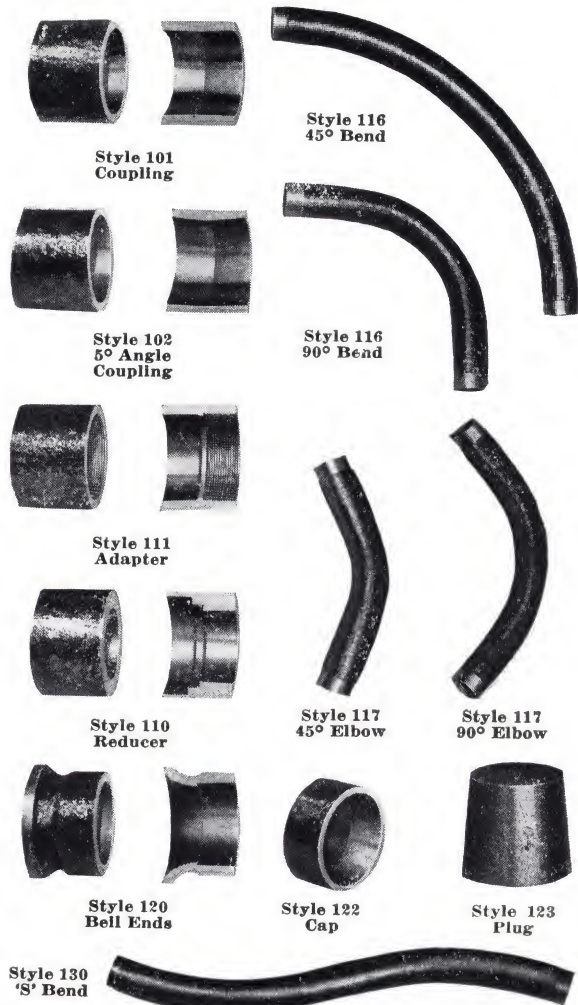
STYLE 117—45° AND 90° ELBOWS

One coupling is furnished with each Elbow.

Inside Diameter Inches	Radius Inches	Price Each
2	9.5	.....
3	13	.....
4	16	.....
4½	18	.....
5	24	.....

Socket joint (mortise and tenon) conduit is special but can be furnished at same price as Harrington joint, if so ordered.

L-M FIBRE CONDUIT



Style No.	Description	Inside Diam.	Price Each
122	Caps for capping conduit ends.....	2	.....
123	Plugs for temporarily closing duct ends.....	3	.....
101	Coupling.....	4	.....
102	5° Angle Coupling.....	4½	.....
		5	.....
		6	.....
110	Reducers (largest end determines price). For use when reducing from one size to another.....	2	.....
111	Adapters. For use at joints between fibre conduit and iron pipe.....	3	.....
112	Reducer-Adapter (largest end determines price). For use when joining one size fibre pipe to a different size metal pipe with a standard thread.....	4	.....
		4½	.....
		5	.....
120	Bell Ends. For use at Conduit Terminals in manholes.....	6	.....

L-M COMPLETE UNDERGROUND INSTALLATION EQUIPMENT

Due to the limited space, the listing and specifications of L-M Fibre Conduit is necessarily condensed. However, the L-M line of underground equipment covers material for a complete underground installation.

Details and specifications of L-M Underground Construction specialties will be furnished on request.

NATIONAL ELECTRIC

CONDUIT SYSTEMS



SHERARDUCT—Full weight, threaded, rigid steel conduit fortified against rust and corrosion by the "Sheardizing" process for life-time protection.



XDUCT JUNIOR—Electrical Metallic Tubing. Electro-galvanized, then further protected inside by a smooth, lustrous coating of clear, durable enamel.

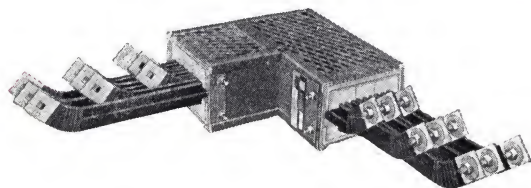


NEPCODUCT—The steel underfloor duct system that provides convenience outlets at the floor surface. For power, lighting, telephone and signal service in any type of floor construction.



FLEXSTEEL—Galvanized, flexible-steel conduit. Continuous runs from outlet to outlet reduce installation costs. Provides an economical "pull-in pull-out," grounded systems.

BUS SYSTEMS



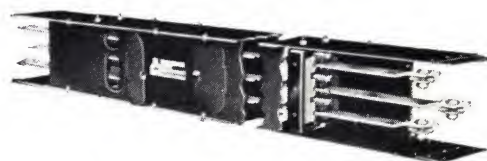
LO-LOSS FEEDER BUS

Highest transmission efficiency due to low voltage drop with all types of load. Recommended for long feeder runs.

STANDARD FEEDER BUS TYPE "A" HOUSING



For normal runs between transformer bank and switch-gear equipment. Housings for both indoor and outdoor installations.



I.P.I. "PLUG-IN" BUS

For branch runs from feeder bus. Plug-in openings, staggered on 15-inch centers on two sides, permit insertion of devices every 7½ inches.

FOR ALL SYSTEMS

NE insulated building wires and cables, connectors, boxes and accessories to meet the requirements of any wiring job.

WIRING SYSTEMS

**Engineered to
Fit the Job**

WIRED SYSTEMS

NON-METALLIC SHEATHED CABLES



CANVAS BACK LOOMWIRE—A new, small diameter cable for dry locations — normal requirements. Each conductor carries full insulation to terminal screw. Has a saturated, fire-retardant, moisture resistant, cotton-braided sheath.



NE-o-PRENE LOOMWIRE—The first Neoprene-sheathed Loomwire to be listed by U/L. For damp locations, stable, farm buildings — where rot, fungus, moisture, ammonia-laden air and drastic weather conditions are destructive to other approved wiring.



A.B.C. ARMORED BUSHED CABLE—Complete, ready-to-use grounded wiring system. Sizes 14 and 12 have low-resistance grounding strip. Furnished with "Dilec Safecote" insulated wires.



PLUG-IN STRIP—"Constant Service" 2-Wire and "Switch-controlled" 3-wire multi-outlet assemblies. Outlets every 18" or 6". For residential or commercial use.



3-Wire PLUG-IN STRIP provides wall-switch control for lamps, plus constant service for clocks, radios, electric blankets and appliances. Each receptacle — a choice of two services.

RACEWAY SYSTEMS



XTENSIONDUCT—For extending circuits along walls and ceilings. Made with the "lay-in" feature. No wire fishing necessary. Attach the base, lay-in the wires, snap on the capping.



METAL MOLDING—For main lighting distribution and multiple branch circuits — also has the "lay-in" principle.



4x4 WIREWA—A hinged-lid steel wireway for feeders, branch circuits, control and signal wiring up to 600 volts. Speeds power re-wiring. Eliminates exposed wiring hazards.



FLORDUCT—For across-the-floor service. Bump-proof, mop-proof, trip-proof — another NE raceway with the "lay-in" principle.



SURFACEDUCT—A 2-piece, all-purpose industrial "lay-in" raceway for every type of service up to 60 amp. Accommodates all manufacturers' approved devices.

Everything in wiring points to NE

**National Electric
PRODUCTS CORPORATION**



NATIONAL ELECTRIC METAL MOLDING
AND FITTINGS

333 METAL MOLDING



Neutral Gray finish—two pieces, base and capping. Packed 12 lengths, 8 ft. 4 in. long (100 ft.) in sealed corrugated carton. 3 fibre Wiring Retaining Clips with each length.

Capacity, Single Conductor: Type R or RH—2 No. 8; 3 No. 10; 6 No. 12; 7 No. 14. Type T or TW and RU—2 No. 6; 3 No. 8; 6 No. 10; 8 No. 12; 9 No. 14. Annunciator—25 wires, Telephone—Twisted Pair, 8; Cable up to $\frac{1}{2}$ inch diameter.

Handbook of instructions for installation will be sent on request.

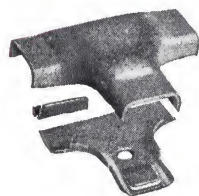
Listed and approved by the Underwriters' Laboratories, Inc.

Two-Piece

For two to four wires, 1 inch wide, $\frac{7}{8}$ -inch high, 8 feet 4 inches long. Neutral gray finish.

Cat. No.	Unit Pkg., Feet	Std. Pkg., Feet	Wt., Lbs., Std. Pkg.
333	100	1000	410

FITTINGS FOR 333 METAL MOLDING



Take-Off Tee

For branch molding runs. Tee base slips under molding base. Capacity: Up to two No. 10 or No. 14 splices. U.S. Pat. No. 1,936,081.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
319	5	50	15

Combination Twist Elbow or Tee
To take 333 Molding from wall to ceiling with provision for use as either a left or right ell for tee through-runs.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
325	5	20	22



90° Flat Tee

Push-fit base. Capacity: Up to four No. 12 splices.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
335	5	50	15

90° Flat Elbow

Push-fit base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
336	10	100	11

NATIONAL ELECTRIC METAL MOLDING
FITTINGS

FITTINGS FOR 333 METAL MOLDING



90° External Elbow

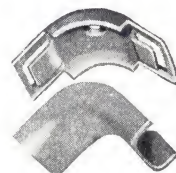
Push-fit base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
337	10	100	8

90° Internal Elbow

Push-fit base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
338	10	100	9



45° Flat Elbow

Push-fit base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
437	5	20	4

337-B Cap

For External Elbow No. 337.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
337-B	30	60	3



338-B Cap

For Internal Elbow No. 338.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
338-B	30	60	3

Coupling

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
344-X	50	200	11

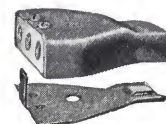


Joint Cap

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
323	50	200	4

Open Work Coupling

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
369-X	5	20	4



Ground Clamp

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
355	5	20	4

NATIONAL ELECTRIC METAL MOLDING FITTINGS

FITTINGS FOR 333 METAL MOLDING

½-Inch Conduit to Molding Adapter

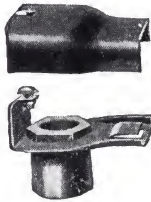


For ½-inch conduit to molding
devices and elbows, tees, etc.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
315	5	50	3

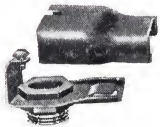
90° ½-Inch Conduit Coupling Molding to ½-inch conduit.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
316	5	20	5



90° ½-Inch Angle Box Connector

Molding to ½-inch conduit KO
or ½-inch conduit coupling.

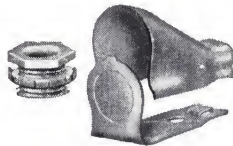


Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
317	5	20	4

Combination Connector

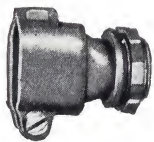
½ inch conduit KO in end
and bottom, furnished with
Chase nipple and ½-inch
locknut.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
406	5	50	11



½-Inch Straight Box Connector

Molding to ½-inch conduit KO,
or to ½-inch conduit coupling.
U.S. Patent No. 1,776,652.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
2180	10	100	14

Single-Strap

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
345	50	500	7



Single-Strap

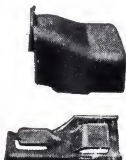
With base,		base-plate-type.	
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
434	50	500	11



Adapter

To take Metal Molding into Wire-
mold boxes and devices.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
303	10	100	4



NATIONAL ELECTRIC METAL MOLDING FITTINGS

333 METAL MOLDING TOOLS

Bending Tool

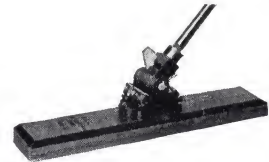


For 333 Molding

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
322	1	1	2½

Molding Shear

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs. Std.Pkg.
422-X	1	1	11



Cutting and Notching Gauge



For 333 Molding, Miter
gauge which assures
close- and neat-fitting
joints and corners.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
423	1	1	2

333 METAL MOLDING JUNCTION BOXES

Corner Box

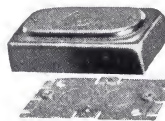
Double twistouts on each side
and one at each end. KO for ½-
inch conduit in each arm of base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
376	5	20	21



Utility Box

With combination ½-inch conduit
KO, and drop-cord eyelet.
Four twistouts for Molding or
Xtensionduct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
352	5	20	7

Baseboard Junction Box

For branch from top to face
of baseboard. Similar to 352 but
provided with opening for 333
and elbow cap.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
352-F	5	20	9



333 METAL MOLDING STANDARD DEVICES

Duplex Receptacle with Parallel Slots

Consists of parallel slot duplex
receptacle and steel housing for
surface-mounting. Four twistouts
for Molding or Xtensionduct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
350	1	20	9

Duplex Receptacle with T-Slots

Consists of T-slot duplex receptacle and steel
housing for surface-mounting. Four twistouts for
molding or Xtensionduct.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt. Lbs., Std. Pkg.
350-T	Duplex Receptacle	1	20	9

NATIONAL ELECTRIC METAL MOLDING
AND FITTINGS

333 METAL MOLDING STANDARD DEVICES



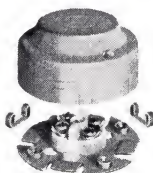
Single-Pole Toggle-Switch
Consists of toggle-switch and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
351	1	20	8

2½-Inch Drop-Cord Rosette

Push-fit base; four double twist-outs. Assembled with terminal block.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
348	5	50	15



3-Inch Drop-Cord Rosette

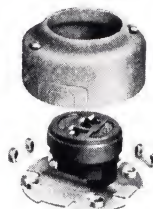
Push-fit base; four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
348-X	5	50	19

2½-Inch T-Slot Receptacle

660-watt. Push-fit base; two double twist-outs.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
360	5	50	18



333 METAL MOLDING SPECIAL DEVICE

2½-Inch Keyless Receptacle

Slips over molding base, secured by set-screw. Bakelite liner for high-wattage lamps up to 600 watts. Threaded for Uno shade-holder. US. Patent No. 2,037,368.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
357	5	50	19



333 METAL MOLDING DEVICE BOXES

2½-Inch Blank Cover

With combination ½-inch conduit KO and drop-cord eyelet. For use with 342 or 343 boxes.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
339-X	5	50	8



Device Boxes

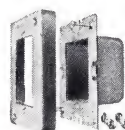
½-inch conduit KO in bottom. Two No. 6-32x¾-inch screws furnished for mounting sockets, switches, or other devices. Four double twistouts.

Cat. No.	Amp.	Size In.	Depth In.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
342	10	3	1	5	50	16
343	5	2½	¾	5	50	16

NATIONAL ELECTRIC METAL MOLDING
AND FITTINGS

333 METAL MOLDING DEVICE BOXES

One-Gang Semi-Flush Switch and Receptacle Box



For flush devices. Has wall case without KOs. 1½ inches deep. Surface box 4¾x3¾; ¾ inches deep, with four double twistouts; total depth 2¾ inches.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
438	1	20	9

One-Gang Surface Switch and Receptacle Box

1¼ inches deep for flush switches and receptacles. 4¾x3¾ inches with four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
439	1	20	8



One-Gang Surface Switch and Receptacle Boxes

For flush switches and receptacle; 4¾x3¾ inches with four double twistouts.

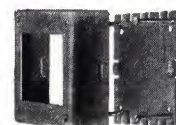
Cat. No.	Depth In.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
439-D	1¾	1	20	7
439-X	1	1	20	7



Two-Gang Surface Switch and Receptacle Box

1¼ inches deep for flush switches and receptacles; 4¾x5 inches with eight double twistouts.

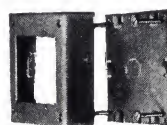
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
*440	1	10	11



Two-Gang Surface Switch and Receptacle Box

1 inch deep for flush switches and receptacles; 4¾x5 inches with eight double twistouts.

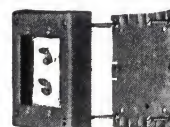
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
*440-D	1	10	10



Two-Gang Surface Switch and Receptacle Box

1 inch deep for flush switches and receptacles; 4¾x5 inches with eight double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
*440-X	1	10	9



One-Gang Switch and Receptacle Box Adapter

4¾x3¾x¾ inches deep, with four double twistouts.

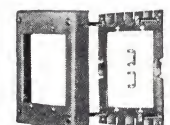
Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
441	1	20	5



Two-Gang Switch and Receptacle Box Adapter

4¾x5x¾ inches deep, with eight double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
*442	1	10	7



*Can be furnished up to 6-gang.

NATIONAL ELECTRIC METAL MOLDING
AND FITTINGS

333 METAL MOLDING CANOPY BASES



4 3/4-Inch Split Canopy Base Plate
and Closed Cover

Combination 1/2-inch conduit
KO and drop-cord eyelet. Six double
twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
361	5	20	35

4 3/4-Inch Split Canopy Base Plate
and Cover

Two pairs 8-32 tapped holes on
3 3/4-inch and 4-inch centers for
standard outlet box covers or de-
vices. Six double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
362	5	50	30



6 1/2-Inch Split Canopy Base Plate
and Cover

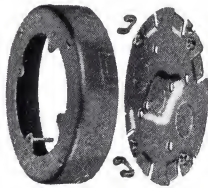
Two pairs 8-32 tapped holes on
3 3/4-inch and 4-inch centers for
standard outlet box covers or de-
vices. Six double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
367	5	20	23

4 3/4-Inch Canopy Base Plate
and Cover

Two pairs 8-32 tapped
holes on 3 3/4-inch and 4-inch
centers. For standard out-
let box covers or devices.
Five 1/2-inch conduit KOs in
plate. Six double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
365	5	50	36



Canopy Base Plate and Cover

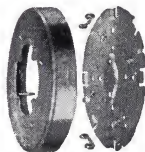
Same as 365 but with 3/8-inch
male fixture stud on plate.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
365-A	5	50	37

6 1/2-Inch Canopy Base Plate and
Cover

Two pairs 8-32 tapped holes on
3 3/4-inch and 4-inch centers for stand-
ard outlet box covers, and devices.
Five 1/2-inch KOs. Six double twist-
outs.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
366	5	20	25



4-Inch Blank Cover

With combination 1/2-inch con-
duit KO and drop-cord eyelet. For
use with 362, 365, 365-A, 366, 367.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
365-X	5	50	10

NATIONAL ELECTRIC METAL MOLDING
AND FITTINGS

333 METAL MOLDING AUXILIARY DEVICES



Terminal Block

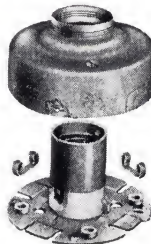
For 348-X Drop-Cord Rosette.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
340-X	5	20	6

2 1/2-Inch Fixture Rosette

With terminal block; combina-
tion bushing for 1/8- and 3/8-inch
pipe; push-fit base. Four double
twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
430	5	20	16



3-Inch Keyless Receptacle

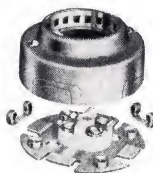
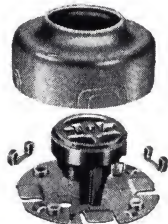
Threaded for Uno shadeholder.
660-watt; push-fit base; four dou-
ble twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
356-X	5	50	22

3-Inch T-Slot Receptacle

660-watt. Push-fit base; four
double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
360-X	5	50	24



2 1/2-Inch Receptacle Base

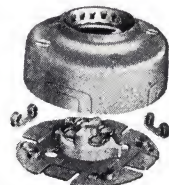
With terminal block for fluted
shell sockets and devices; push-
fit base, four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
400	5	50	16

3-Inch Receptacle Base

With terminal block for fluted
shell sockets and devices. Push-
fit base, four double twistouts.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt.,Lbs., Std.Pkg.
400-X	5	50	21



NATIONAL ELECTRIC XTENSIONDUCT

111 XTENSIONDUCT



Neutral Gray finish—two-piece—base and capping. Packed 20 lengths, 5 ft. long in sealed corrugated container.

Capacity, Single Conductor; Type R or RH—2 No. 12; 3 No. 14. Type T or TW and RU—3 No. 12; 3 No. 14. Annunciator, 10; Telephone Twisted Pair, 4.

Listed and approved by Underwriters' Laboratories, Inc.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
111	100 feet	1000 feet	160

XTENSIONDUCT FITTINGS

Coupling



For connecting base. Capping should overlap joint. (If coupling is not used the capping of Xtensionduct must overlap the joint in base to provide electrical continuity).

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
144	10	50	1

External Elbow Cap

For use at outside corners. 90 degrees.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
137	5	50	1 1/2

Internal Elbow Cap

For use at outside corners. 90 degrees.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
138	5	50	1 1/2

Flat Elbow

For use at left or right bends in Xtensionduct, 90 degrees. Supplied with base.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
136	5	50	2



Baseboard Offset Elbow

For runs from face to top of baseboard. Supplied with base.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
176	5	20	2

Cutting and Notching Gauge

Miter gauge which assures close and neat-fitting joints and corners.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
122	1	1	1 1/4

NATIONAL ELECTRIC XTENSIONDUCT FITTINGS

XTENSIONDUCT FITTINGS

Low-Potential Fiber Bushing



Used where Xtensionduct is used without fittings for covering bell or signal wire.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
100	10	100	1

Adapter

Connects Xtensionduct to No. 333 metal molding fittings.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
113	10	50	3

Box-Extension Adapter

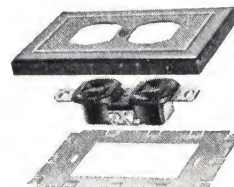
To accommodate extensions from outlets requiring other than standard convenience receptacles. This fitting may be used with any standard wiring device including P & S Despard Line.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
139	1	20	5

Box-Extension Device

To accommodate extensions from existing outlets. Includes plate and T-slot receptacle.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
141	1	20	10

Duplex Receptacle with Parallel Slots

Consists of parallel slot duplex receptacle and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
350	1	20	9

Duplex Receptacle with T-Slots

Consists of T-slot duplex receptacle and steel housing for surface-mounting. Four twistouts for molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
350-T	1	20	9

Single-Pole Toggle Switch

Consists of toggle-switch and steel housing for surface-mounting. Four twistouts for Molding or Xtensionduct.



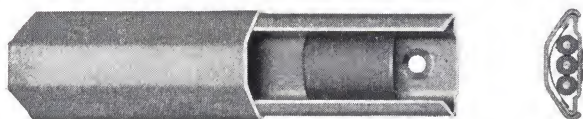
Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
351	1	20	8

NATIONAL ELECTRIC FLORDUCT

Florduct consists of two pieces, base and capping so formed as to "snap" together—the capping snapping over the base. The capping is a ramp-like plate offering the minimum of obstruction. Florduct makes practical surface floor wiring across aisles and will stand the abuse of hand-trucks and office traffic.

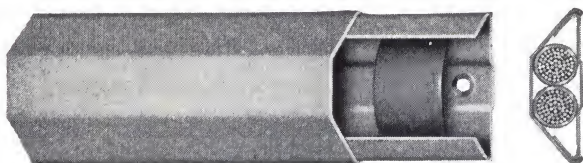
Neutral gray finish.

Approved by Underwriters' Laboratories, Inc.



NO. 711-A

Capacity, Single Conductor: Type R and RH—4 No. 12; 7 No. 14; 6 No. 16; 8 No. 18. Type T or TW and RU—3 No. 8; 4 No. 10; 5 No. 12; 9 No. 14. Annunciator: 20. Telephone: 4 Twisted Pair.



NO. 733-A

Capacity, Single Conductor: Type R and RH—4 No. 6; 7 No. 8; 10 No. 10; 10 No. 12; 10 No. 14; 20 No. 16; 24 No. 18. Type T or TW and RU—6 No. 6; 10 No. 8; 10 No. 10; 10 No. 12; 10 No. 14. Annunciator: 50. Telephone, 8 Twisted Pair; Cable up to 26 pair.

Cat. No.	Unit Pkg. Feet	Std. Pkg. Feet	Wt., Lbs. Std. Pkg.
711-A	5	100	38
733-A	5	100	78

FITTINGS FOR 711-A AND 733-A FLORDUCT



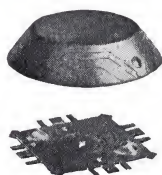
Internal Adapter Elbow

This small Internal Adapter Elbow is for use with 711-A Florduct only. For making bends from Florduct on floor to open wiring or 333 Metal Molding on baseboard. Furnished with fibre bushing to be used with open wiring.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
738-B	5	20	3

Outlet Extension Cap

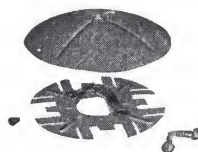
For 711-A or 733-A Florduct. Used as junction fitting between Florduct and the outlet from which extension is made. Arranged for mounting on wood floor. Also may be used as a flat elbow or junction of Florduct.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
766-BA	10	20	4

NATIONAL ELECTRIC FLORDUCT

FITTINGS FOR 711-A AND 733-A FLORDUCT



Outlet Extension Cap

For use with 711-A Florduct only. Used as junction fitting between Florduct and the outlet from which extension is made. Arranged for mounting on wood floor.

May be used as flat elbow or junction of Florduct runs.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
765-A	5	20	5½

Adapters

No. 702 Adapter for connecting and fastening No. 765-A Extension Cap to ½-inch threaded outlet on floor box.



No. 703 Adapter is the same as No. 702 except for ¾-inch.

Cat. No.	Size In.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
702	½	10	20	1¼
703	¾	10	20	1¼

Adapter

For use with No. 703 for 1-inch threaded outlet on floor box.



Cat. No.	Size In.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
704	1	10	20	1¼

Straps

No. 715 is for use with 711-A Florduct and No. 745-A with 733-A Florduct.

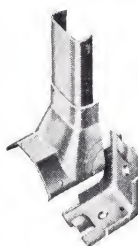


715 — 745-A

Cat. No.	Use With	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
715	711-A	50	500	7
745-A	733-A	50	500	7

FITTINGS FOR 733-A FLORDUCT

Large Internal Adapter Elbow



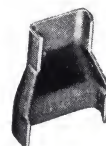
For use with 733-A Florduct only. For making bends from Florduct on floor to molding on wall or baseboard—with twistouts in base for ½- and ¾-inch quarter-round.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
740-A	5	20	1½

Adapter

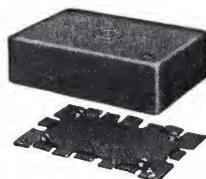
888 to 333 Metal Molding used with 740-A.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
740-AR	10	20	2½



Utility Box

4⅞x3⅞; 1⅞ inches deep. Combination ½- and 1-inch KO in base.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs. Std. Pkg.
839	1	10	10

NATIONAL ELECTRIC FLORDUCT FITTINGS FOR 733-A FLORDUCT



Utility Box
With combination 1/2-inch conduit and drop-cord eyelet.
*Four twistouts for molding or Xtensionduct.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
352	5	20	7

Baseboard Junction Box

For branch from top to face of baseboard. Similar to 352 but provided with opening for 333 and elbow cap.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
352-F	5	20	9

LOW-POTENTIAL FITTINGS FOR 711-A AND 733-A FLORDUCT

Internal Adapter Elbow

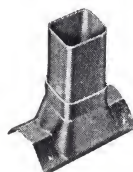
For open wiring to 733 Florduct. For telephone cables up to 2-26 pair telephone cable. Furnished with fibre bushing to be used with open wiring. Twistouts for 1/2- and 3/4-inch quarter-round.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
739-A	5	20	1 1/2

In-And-Out Fitting

Will take up to two 26 pair telephone cables.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
751-A	1	10	4



Service Fitting

For 711-A and 733-A Florduct with gasket to be used at the new outlet location for protecting wires leaving Florduct and extending to apparatus on desks, etc. Equipped with four triple twistouts used at ends, for through-runs or for right-angle branches. Sheath has opening for up to 26 pair telephone cable.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
*750-TA	1	10	4 1/2

Service Fitting

For 711-A or 733-A Florduct to be used at the new outlet location for protecting wires leaving Florduct and extending to apparatus on desks, etc. Equipped with four triple twistouts. Used at ends, for through-runs, or right-angle branches. Sheath has .422 opening.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
*750-A	1	10	4 1/2



*To make this fitting watertight 753-A Gasket may be used.

NATIONAL ELECTRIC FLORDUCT LOW-POTENTIAL FITTINGS FOR 711-A AND 733-A FLORDUCT

Rubber Gasket

For use with 749-A, 750-A, 750-BA and 750-TA. To make fitting watertight.

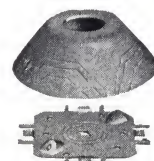


Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
753-A	10	50	2 1/4

Service Fitting

Same as 750-A without sheath. 7/8-inch opening for 1/2-inch conduit.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
*750-BA	1	10	4



Service Fitting

To be used at the new outlet location for protecting wires leaving Florduct and extending to apparatus on desks, etc. Equipped with four double twistouts for use at ends, for through-runs, or for right-angle branches. For 711-A or 733-A.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
*749-A	1	10	4 1/2



*To make this fitting watertight 753-A Gasket may be used.

HIGH POTENTIAL FITTINGS FOR 711-A AND 733-A FLORDUCT

Single Plug Receptacle

For 711-A and 733-A Florduct. T-slots.

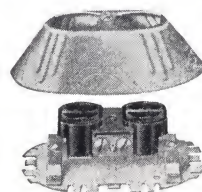
Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
760-A	1	10	7



Duplex Floor Receptacle

For 711-A and 733-A Florduct, T-slots.

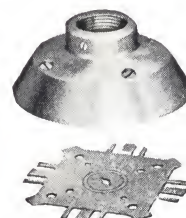
Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
761-A	1	10	7



Brass Base

For standard 3/4-inch floor receptacle and fittings. Also used with No. 768-A, 769-A and 770-A box assemblies.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt., Lbs., Std. Pkg.
764-A	1	10	9

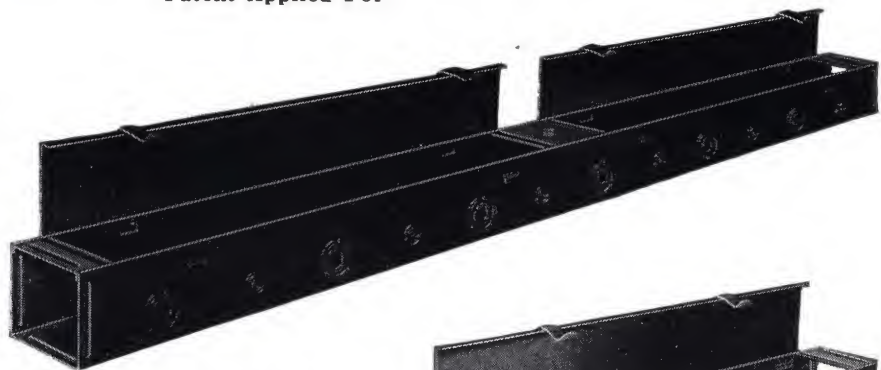


NATIONAL ELECTRIC 4-BY-4 WIREWA

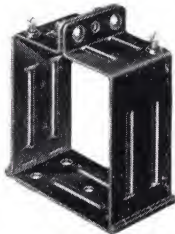
Patent Applied For



544-W1



544-W5



544-C

(★) Standard Coupling is included on all items marked (★)



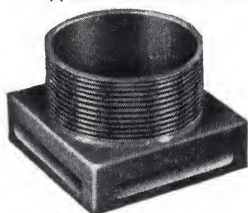
544-W2

★4X4 WIREWA

Flangeless, streamlined, steel, rigid wireway, having spring-latched hinged cover, completely accessible, for housing electrical conductors. Knock-out clusters for ½-, ¾-, 1-, 1¼- and 1½-inch conduit, alternated with ½- and ¾-inch clusters are provided on 4½-inch centers in the back and sides for extensions. The interior of Wirewa is smooth and clean to facilitate the insertion of conductors. Standard finish is baked Black Enamel.

Cat. No.	Length	Wt., Lbs.
★544-W5	5 Ft. Long with Coupling	18
★544-W2	2 Ft. Long with Coupling	8½
★544-W1	1 Ft. Long with Coupling	5
544-C	Standard Clamp-type Coupling	

★4X4 3-INCH CONDUIT END-FITTINGS

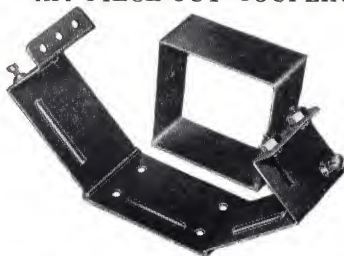


Conduit end-fittings are threaded castings designed for rigid conduit connection to Wirewa cutout cabinets or pull-boxes. All surfaces are smooth to facilitate insertion of conductors. (Cat. No. 544-EC should be ordered where conduits smaller

than 3 inches are brought directly into Wirewa ends).

Cat. No.	Description	Wt., Lbs.
★544-C30M	With Coupling, male threads	2

4X4 PIECE-OUT COUPLING AND COLLAR



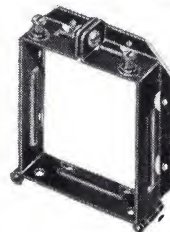
It sometimes is necessary to cut off a standard section of Wirewa to meet construction conditions. This fitting is used to join the cut off section with the adjoining section. No drilling or

other work required. Setscrews provide grounding continuity as they grip cut off section of Wirewa.

Cat. No.	Description	Wt., Lbs.
544-PC	Coupling and Collar	1¼

(★) Standard coupling is included on all items marked (★).

Also available in galvanized 4X4 Wirewa and fittings, and in 4X4 Wirewa without knockouts.



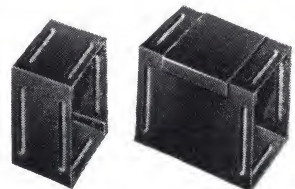
4X4 BOX CONNECTOR COUPLING AND ADAPTER

This fitting is for use in connecting Wirewa runs to panel-board cabinets, pull-boxes, terminating in end-plates. Bolts and nuts are furnished for fastening in place.

Cat. No.	Description	Wt., Lbs.
544-A	Coupling and Adapter	¾

★4X4 NIPPLES

These fittings are short lengths of Wirewa for insertion between standard sections to meet dimensional requirements where a 1-foot section or Slip-Fitting cannot be used.



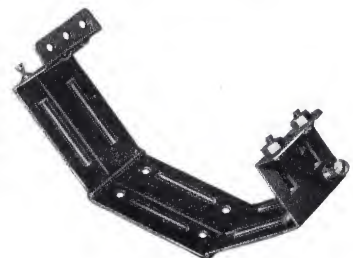
544-N3

544-N6

Cat. No.	Length	Wt., Lbs.
★544-N3	3 Inches Long with Coupling	1¾
★544-N6	6 Inches Long with Coupling	2½

4X4 ½-INCH NIPPLE COUPLING

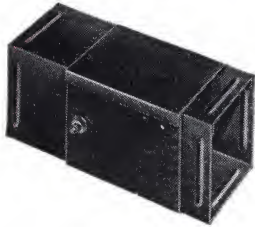
Coupling and nipple combined for use to meet slight dimensional requirements where longer Nipples or Slip-Fittings cannot be used.



Cat. No.	Description	Wt., Lbs.
544-NC	½" Nipple and Coupling Complete	¾

NATIONAL ELECTRIC 4-BY-4 WIREWA

★4X4 SLIP-FITTING

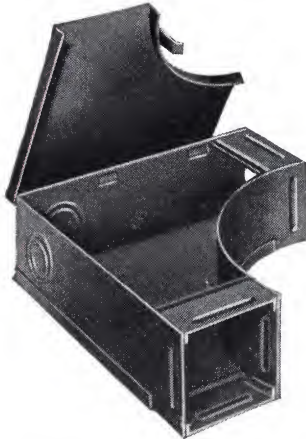


Adjustable fitting for conveniently joining sections together at distances of from 10 to 16 inches where standard lengths cannot be used. It also is adapted to take up the irregular lengths required to extend to panelboard cabinets or pull-boxes. Setscrews

lock the sliding portions in position and also provide grounding continuity.

Cat. No.	Description	Wt., Lbs.
★544-SF	10-Inch Min. to 16-Inch Max. with Coupling	6¼

★4X4 90° PULL-BOX ELBOWS



Three-purpose fitting providing a 90° elbow, a spring-latched, hinged-cover, roomy pull-box for pulling and splicing conductors and knockout clusters in back and sides for branch extensions.

Cat. No.	Description	Wt., Lbs.
★544-PL9	With Coupling	5½

★4X4 ELBOWS



*544-L90



*544-L45



*544-L22½

For making changes in directions such as bends of varying radii and for offsets of most any angle.

Cat. No.	Degrees	Wt., Lbs.
★544-L90	90° with Coupling.....	4½
★544-L45	45° with Coupling.....	2½
★544-L22½	22½° with Coupling.....	2

(★) Standard coupling is included on all items marked (★).

Also available in galvanized 4X4 Wirewa and fittings, and in 4X4 Wirewa without knockouts.

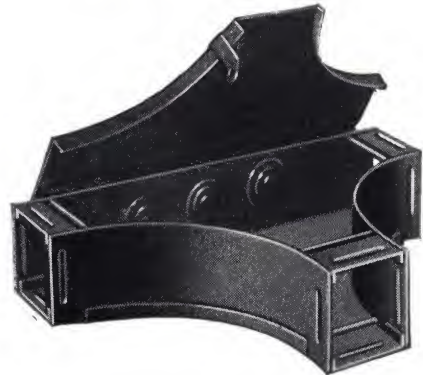
★4X4 X PULL-BOX



Junction box with Wirewa extension provisions in four directions. Has knockout cluster in back and is provided with slide bolt, two-section hinged cover.

Cat. No.	Description	Wt., Lbs.
★544-XB	With Coupling	9½

★4X4 TEE PULL-BOX



Combination fitting for straight-through wiring or future extension, right-angle change in direction, pull-box with knockout clusters in top and one side and having hinged-cover with spring-latch.

Cat. No.	Description	Wt., Lbs.
★544-TB	With Coupling	7¼

★4X4-INCH SQUARE JUNCTION BOX

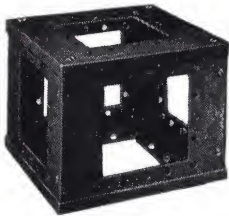


Has knockout clusters in four sides, two sides are removable for accessibility. May be used in cramped locations and where larger ell and T-pull-boxes are not necessary.

Cat. No.	Description	Wt., Lbs.
★544-B4	With Coupling	2½

NATIONAL ELECTRIC 4-BY-4 WIREWA

4X4 PULL-BOX



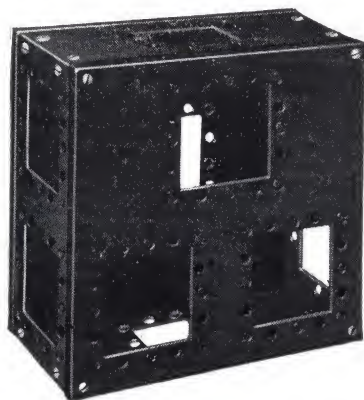
Cat. No.
544-B7

The 544-B7 Pull-Box is designed for use where more space is required than 4-inch-square junction box provides for longer bending radii in conductors and for pulling and splicing conductors. (Cat. No. 544-EP End-Plates should be ordered and installed over all unused openings.)

Size, Inches
7 1/8 x 7 1/8

Wt., Lbs.
4

4X4 PULL-BOX



The 544-B12 Pull-Box is designed for use in multiple runs of Wirewa and where wiring conditions require more space than afforded by smaller fittings.

Cat. No.
544-B12

Size, Inches
12 3/4 x 12 3/4

Wt., Lbs.
9 1/2

★4X4 ADAPTER



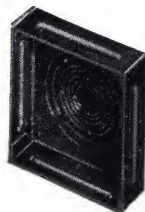
Cat. No.
★544-A25

This fitting is for connecting to cabinets, pull-boxes, etc., that are not wide enough to accommodate the 4-inch fittings. Bolts and nuts are provided for fastening the Adapter in place. Openings must be provided in the cabinets, etc., for inserting conductors and bolts.

Description
With Coupling

Wt., Lbs.
3/4

★4X4 END-CLOSER



Cat. No.
★544-EC

Description
With Coupling

Wt., Lbs.
1 1/4

(★) Standard coupling is included on all items marked (★).

Also available in galvanized 4X4 Wirewa and fittings, and in 4X4 Wirewa without knockouts.



Cat. No.
544-EP

4X4 END-PLATE

This fitting is a flat plate provided with a knockout cluster and is for use in blanking all unused openings in junction boxes. Bolts and nuts are provided with this fitting.

Description
End-Plate

Wt., Lbs.
1/4

4X4 HANGER—DROP TYPE

Fitting designed primarily for use in suspending Wirewa from the ceiling or roof and permits the cover to be opened in any position. No additional bolts required to fasten hanger to Wirewa.

Cat. No.
544-H

Size, Inches
3 x 4 1/4

Wt., Lbs.
1/4



4X4 HANGER EXTENSION



Cat. No.
544-HE

Length, Inches
4 3/4

Wt., Lbs.
1/4

Factory-made extensions are available for extending length of hanger in any desired adjustment in 1/2-inch steps.

4X4 HANGER—BRACKET TYPE

Designed for side-wall mounting with openings corresponding to the bolt holes in the base of the coupling. This fitting also

is adapted for ceiling mounting with cover to the sides or bottom. Flathead bolts and nuts are provided with this fitting.

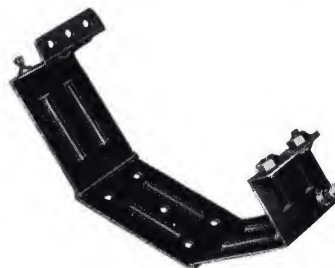
Cat. No.
544-HB

Size, Inches
2 5/8 High x 8 1/2

Wt., Lbs.
3/4



4X4 STANDARD COUPLING



This clamp-type coupling, supplied with each fitting indicated is universal in its use. It not only joins adjacent sections of Wirewa together by means of its specially designed interlocking depressions but also securely clamps them in place, using only two husky, easily-handled bolts. Hangers can be attached to coupling after assembly. Holes are provided in the base of the coupling for fastening to any flat surface using bolts or screws. The coupling clamps around the Wirewa with the cover in any position. Specially-designed extrusions and setscrews establish positive grounding continuity.

Cat. No.
544-C

Description
Standard Coupling

Wt., Lbs.
3/4

NATIONAL ELECTRIC NEPCODUCT

STANDARD SYSTEM OF CONVENIENCE
OUTLETS IN THE FLOOR

For lighting and power, telephone and signal services to desks and free standing equipment.

Nepcoduct is a steel underfloor raceway system providing complete mechanical security and electrical

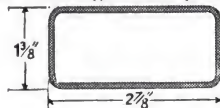
bonding as required by the National Electrical Code. One size raceway for both high and low potential wiring eliminates multiplicity of fittings. Nepcoduct is installed in all types of conventional floor construction. Junction boxes are provided for one, two and three duct systems.

Nepcoduct is installed when floor is laid and the outlets remain beneath the surface until needed. When electrical connections are wanted the outlets can be quickly opened and service fittings installed.

Service fittings are made of durable brushed brass or aluminum satin finish. Cover plates are used where service is discontinued.

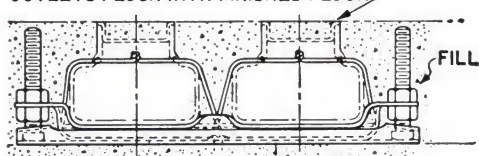
Nepcoduct is furnished in 10 ft. lengths with outlets spaced every 24 inches. Outlets are processed in a manner to make fishing and wire pulling extremely easy. The outlets are screw-threaded for positively engaging Service Fittings and providing a continuous electrical ground.

Finished in either Black Enamel or Galvanized rust-proof finish.



Blank Duct

OUTLETS FLUSH WITH FINISHED FLOOR



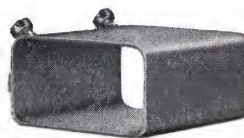
SIDE ELEVATION OF SADDLE

Showing low position of adjustable saddle

The No. 7005 series with cross-section $1\frac{3}{8} \times 2\frac{7}{8}$ inches is furnished in ten-foot lengths. The third digit of catalog numbers (which are subject to change) indicates the number of outlets per ten-foot lengths.

Nepcoduct is rectangular in cross-section with corners rounded or filleted to minimize the tendency of the floor cracking when it is embedded in the concrete floors. The accepted depth of duct below the finished floor is $1\frac{1}{4}$ inches. Shape of entire system, including ducts, boxes, elbows, and top of duct outlets, must be given, and also give the full maximum inside area.

Cat. No.	No. Outlets Per 10 Feet	Outlet Dia., In.	Duct Size, Inches	Wt., Lbs., Per 100 Ft.
7005	Blank Duct		$1\frac{3}{8} \times 2\frac{7}{8}$	180
7055L	5	1.900	$1\frac{3}{8} \times 2\frac{7}{8}$	200

NATIONAL ELECTRIC NEPCODUCT
STANDARD SYSTEM OF CONVENIENCE
OUTLETS IN THE FLOOR
COUPLING

Nepcoduct couplings are featured with the tangent bearing setscrews.

The tangent bearing setscrews render couplings and fittings ideal for continuous protective groundings.

Cat. No.	Description
7165	Coupling

Duct Size, Inches	Wt., Ozs., Each
$1\frac{3}{8} \times 2\frac{7}{8}$	13

DUCT TO CABINET CONNECTORS

Duct to cabinet connectors are used where duct is turned up into wall for connection to wall cabinets or panel boxes.



Cat. No.	Description
7755	Low Potential

Duct Size, Inches	Wt., Ozs., Each
$1\frac{3}{8} \times 2\frac{7}{8}$	12

DUCT END BLANKS

Duct end blanks are used at the dead-end of duct runs.



Cat. No.	Description
7715	For Large Nepcoduct

Duct Size, Inches	Wt., Ozs., Each
$1\frac{3}{8} \times 2\frac{7}{8}$	11 1/2

DUCT OPENING PLUGS

Duct-opening plugs are intended for closing unused duct openings in junction boxes or fittings.

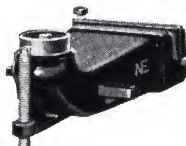


Cat. No.	Duct Size, Inches
7745	$1\frac{3}{8} \times 2\frac{7}{8}$

Wt., Ozs., Each
2

DUCT END OUTLETS

Duct End Outlets are one-piece malleable-iron castings, finished in either Black Enamel or Sherardized, and completely assembled with outlet plugs, height-adjusting screws and tangent bearing setscrews.



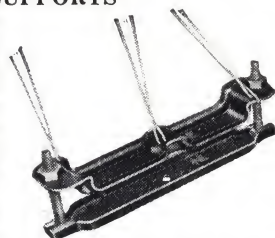
Cat. No.	Description
7725	For Large Nepcoduct

Duct Size, Inches	Wt., Ozs., Each
$1\frac{3}{8} \times 2\frac{7}{8}$	12

SADDLE SUPPORTS

The Saddle Support is a two-piece assembly which harmonizes with progressive methods of installation, wherein the "layout crew" establishes all measurements and lines of duct by installing the base.

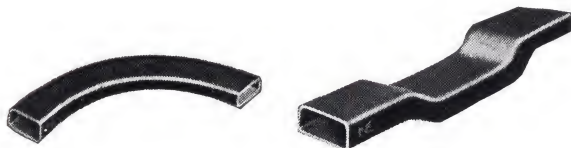
The base also serves as an indicator to all tradesmen, warning against interference, which is a very important item in costs. It can be installed as early in the building schedule as desired and withstands abuses of normal construction operations.



Cat. No.	Description	Duct Size, Inches	Wt., Lbs., Each
7405A to 7405B	Single duct	$1\frac{3}{8} \times 2\frac{7}{8}$	3/4
7455A to 7455D	For 2 ducts complete	$1\frac{3}{8} \times 2\frac{7}{8}$	1 1/2
7455-5A to 7455-5D	For 3 ducts.....	$1\frac{3}{8} \times 2\frac{7}{8}$	2

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM

ELBOWS AND OFFSETS



No. 7215
90° Floor Elbow

No. 7325
Cross-Under Offset



No. 7235 90° Vertical
Wall Elbow Short Radius

Nepcoduct Elbows and Offsets are formed from sections of duct, assuring unobstructed and smooth raceways without reducing the cross-sectional area. Black-Enameled or Sherardized.

Elbows and offsets shown and listed meet the usual run of building conditions.

Two 45° floor elbows coupled together in reverse directions form an ideal offset; the insertion of a section of duct between the elbows increases the distance of the offset. Long-radius wall elbows may be cut in two, and one section reversed for vertical offsets.

Cross-under offsets allow other ducts or conduits to cross within the floor thickness. The amount of offset is 1 3/8 inches with offset width of 10 inches, which will accommodate two large and one small duct with standard 3/4-inch spacing to cross. Overall length is 21 inches.

Elbows

Cat. No.	Radius, In.	Angle, Degrees	Duct Size, Inches	Wt. Lbs., Each
7235	3 1/2	90	1 3/8 x 2 7/8	2 1/8
7225	12	90	1 3/8 x 2 7/8	2 3/4

Floor Elbows

7215	14	90	1 3/8 x 2 7/8	2 1/8
7245	14	45	1 3/8 x 2 7/8	1 1/8

Cross-Under Offsets

7325	For Large Nepcoduct	1 3/8 x 2 7/8	2 1/8
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ESCUTCHEON

Escutcheon floor covering with 10/24 x1-inch screw.



Cat. No.	Finish	Potential	Wt., Ozs., Each
7140	Red Bronze	High	1
7141	Monel	Low	1

CONDUIT REDUCERS

Conduit reducers are threaded inside (female) and arranged exteriorly (male) for the threadless engagement of adapters or boxes.

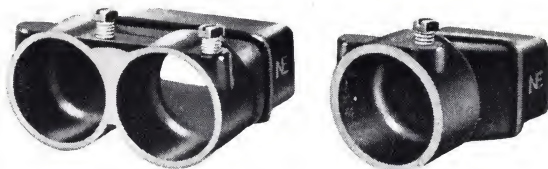


No. 7772

Cat. No.	Conduit	Size, In.	Wt., Ozs., Each
7772	Reducer	1 1/4 to 1/2	5
7773	Reducer	1 1/4 to 3/4	4
7774	Reducer	1 1/4 to 1	3

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM

ADAPTERS—DUCT TO CONDUIT



No. 7735
Duct to Conduit

No. 7765
Duct to Conduit
Male End

Conduit connections to some junction boxes require conduit adapters although most boxes are amply provided with conduit engagements. Conduit extending from the end of the duct often is required, and a complete line of adapters is listed to meet all requirements.

With the exception of Nos. 7762 and 7762-F, all conduit engagements are 1 1/4-inch size. When smaller conduits are to be used, conduit reducers Nos. 7772, 7773 or 7774 are necessary.

All conduit engagements in adapters are of the threadless type employing tangent bearing set-screws.

Adapters are malleable-iron casting.

Cat. No.	Description	Duct Size, Inches	Wt., Lbs., Each
7765-F	Female to 1—1 1/4" cond.	1 3/4 x 2 7/8	2 1/8
7735	L. P. Male to 2—1 1/4" conduit	1 3/8 x 2 7/8	1 1/2
7765-F	Special L. P. Female to 2—1 1/2" conduit	1 3/8 x 2 7/8	2
7765	L.P. Male to 1—1 1/4" conduit	1 3/8 x 2 7/8	1
7785	Duct to 1 1/2" conduit	1 3/8 x 2 7/8	1

ADAPTERS

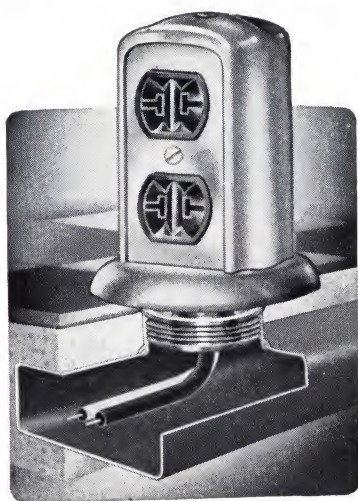


Cat. No.	Description	Wt., Ozs., Each
7924	From Duct Outlet to 1/2-inch conduit	3
7925	From Duct Outlet to 3/4-inch conduit	2 1/2
7926	From Duct Outlet to 1-inch conduit	2 1/4

OUTLET PLUGS

Cat. No.	Description	Wt., Ozs., Each
7105	Type A for standard outlets	2 1/2
7110	Type B for standard outlets	1 3/4
7120	Type A for Type "T" outlets	7 3/4
7122	Type B for Type "T" outlets	6

NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM SERVICE FITTINGS AND ACCESSORIES



7903-L



7904-L



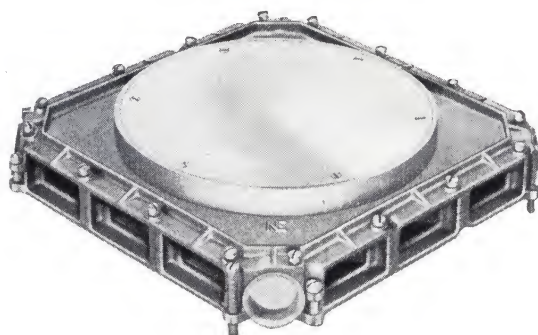
7930-L



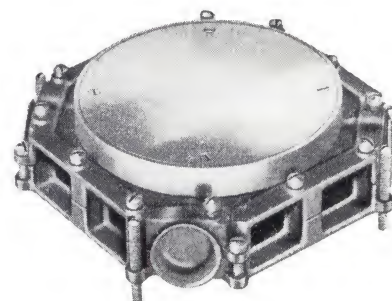
7909-L

Cat. No.	Description	Wt. Lbs., Each
7903-L	Service fitting — high potential for lighting and power wiring	1¼
7904-L	Service fitting — low potential for telephone and signal wiring	1¼
7909-L	Service fitting with 3-pole receptacle	1¼
7930-L	High - potential floor receptacle and cord plug.....	½
7931	Low - potential floor outlet and cord plug.....	⅞
7933	Service fitting with duplex "T" slot receptacle, for high potential. For standard duct outlet	1
7934	Service fitting with ½-inch-diameter bushings for low potential. For standard duct outlet (1.315-inch-diameter)	1
7936	Standard outlet extension (1.315-inch diameter)	⅞
7937	Service fitting low potential, for standard outlet (1.315-inch-diameter)	1
7939	Service fitting with armored cable adapter No. 7918, for standard outlet (1.315-inch-diameter)	1½
7940	Service fitting with Duplex 3-wire receptacle, for high potential....	1
7943	Dwarf fitting; same as No. 7933	1¼
7944	Dwarf fitting; same as No. 7934	1
7948	Dwarf fitting; same as No. 7939	1¼
7949	Dwarf fitting; same as No. 7940	1¼

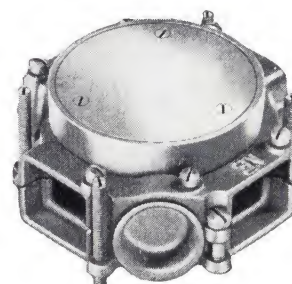
NEPCODUCT SIMPLIFIED UNDERFLOOR WIRING SYSTEM JUNCTION BOXES



No. 7535-55



No. 7525-5



No. 7515

Nepcoduct Junction Boxes are two-piece castings with cross-overs incorporated with completely separated high- and low-potential compartments. In the Underfloorduct, as in any other wiring system, it is essential that the two be kept separate, which guards against any mischance.

Junction boxes may be brought to correct floor level conditions by the use of adjusting screws for leveling and rough height adjustment. Adjustable brass tops form a finer adjustment for height to meet newly finished floor elevations such as linoleum, cork or rubber.

Ducts are secured to the boxes by tangent bearing setscrews, assuring positive mechanical and electrical contact.

Cat. No.	Description	Duct Size, Inches	Wt. Lbs., Each
7515	Single compartment with single duct and four conduit openings	1⅝x2⅞	8
*7525-5	Two compartment, double duct	1⅝x2⅞	21
*7535-55	Three compartment, triple duct	3-1⅝x2⅞	43

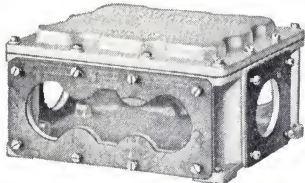
*Partitions in multiple duct boxes can be omitted on special order.

APPLETON RSH SERIES MALLEABLE UNILETS

For Use as Junction Body with Heavy Cables

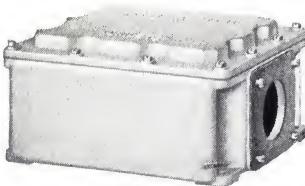
The Type RSHX Unilet has been designed to serve as a junction body for heavy cables and the Type RSHC Unilet with solid sides may also be used as an enclosure for single and double-pole fused cutouts of the following rating, viz., 61-400 amp., 250-volt and 61-200 amp., 600-volt.

TYPE RSHX WITH OPEN SIDES AND ENDS
With Top Cover, Gaskets and Cap Screws



Cat. No.	Outside Dimensions in Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
5570	14½ x 12½ x 6½	1	25	•
5571	17½ x 12½ x 6½	1	35	•

RSHC WITH SOLID SIDE AND OPEN ENDS
With Top Cover, Gaskets and Cap Screws



Cat. No.	Outside Dimensions in Inches	Rating	Wt. Lbs. Std. Pkg.	Price Each
5575	14½ x 12½ x 6½	61-100A., 250V.	30	•
5580	17½ x 12½ x 6½	{ 61-400A., 250V. 61-200A., 600V. }	40	•

Standard package, 1.

CONDUIT HUB PLATES
For Use with Rigid Conduit (Heavy-Wall)
Without Gaskets or Cap Screws



Dimensions:
13⅝"x5⅞"

Dimensions:
13⅝"x5⅞"

For Sides of Type RSHX					For Sides of Type RSHX				
Cat. No.	Size In.	Wt. Lbs. Std. Pkg.	Price Each		Cat. No.	Size In.	Wt. Lbs. Std. Pkg.	Price Each	
5710	1½	2½	•		5720	1½-1½	3	•	
5711	2	3	•		5721	2-2	3½	•	
5712	2½	3½	•		5722	2½-2½	4	•	
5713	3	3½	•		5723	3-3	4½	•	
5714	3½	4	•		5724	3½-3½	5	•	
5715	4	4½	•		5725	4-4	5½	•	



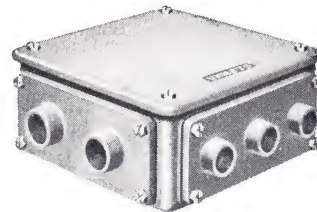
Dimens.: 6⅝"x5⅞"

For Ends of Types RSHX, RSHC					Blank For Sides of Type RSHX				
Cat. No.	Size In.	Wt. Lbs. Std. Pkg.	Price Each		Cat. No.	Dimens. Inches	Pkg. Wt.	Price Each	
5760	1½	1½	•		5750	13⅝x5⅞	2½	•	
5761	2	2	•						
5762	2½	2	•						
5763	3	2½	•						
5764	3½	3	•						
5765	4	3½	•						

Standard package, all above, 1.
Cadmium Finish is the standard finish.

•See Price List

APPLETON RS MALLEABLE UNILETS FOR JUNCTION WORK



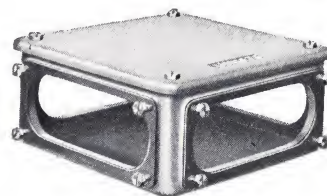
Type RS Unilet
Complete with Hub Plates

This series of Unilets has been designed to meet certain requirements where it is necessary to tap a conduit system after the installation has been completed.

The RS series of Unilets with removable hub plates and cover makes it possible to run additional conduit from the system where a Unilet of this series has been installed in the line. It is necessary only to remove the blank plates and substitute plates with the desired size or number of hubs according to requirements. It is then possible to draw in the circuits and tap on to original lines without interruption of service.

Gaskets are provided for the top cover as well as blank plates and hub plates to make the Unilet watertight. Cap screws and gaskets are furnished with the Unilet body and not with the cover or hub plates.

TYPES RS, RSM AND RSS UNILETS
With Top Cover, Gaskets and Cap Screws



Types	Inside Dimens.	Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
RS	8½x8½x4	9900	10	200	•
RSM	8½x4½x4	9905	10	134	•
RSS	4½x4½x4	9910	10	90	•

TOP COVERS FOR TYPES RS, RSM AND RSS
Without Gaskets or Cap Screws



Types	Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
RS	9915	10	65	•
RSM	9916	10	40	•
RSS	9917	10	22	•

Cadmium Finish is the standard finish.

Conduit Hub Plates and Gaskets, listed on following page.

•See Price List

COLUMBIA STEEL SURFACE CABINETS

TYPE A APPROVED CABINETS

For Cutouts, Service Switches and Panel Boards

List Prices of Approved Cabinets

The boxes listed below are made of sheet steel of the required thickness to conform with Board of Underwriters' requirements and bear the Underwriters' labels. Boxes finished in black enamel. For galvanized finish, add 10 per cent.



Width Inches	Height Inches	DEPTH IN INCHES					
		3 In.	4 In.	6 In.	8 In.	10 In.	12 In.
4 1/2	5	\$.86	\$1.17	.....	.....	.....	.....
4 1/2	9	1.09	1.32	.....	.....	.....	.....
6	6	.94	1.08	\$1.88	\$2.05	.....	.....
6	9	1.15	1.48	2.26	2.54	.....	.....
6	10	1.32	1.58	2.41	2.70	.....	.....
6	11	1.41	1.70	2.26	2.98	.....	.....
6	12	1.50	1.68	2.66	3.06	.....	.....
6	16	1.80	2.04	3.00	3.78	.....	.....
6	8	1.05	1.32	2.13	2.36	.....	.....
8	8	1.28	1.53	2.30	2.76	.....	.....
8	10	1.47	1.72	2.55	3.16	\$3.60	.....
8	12	1.72	2.01	2.90	3.55	4.00	\$4.35
8	15	2.01	2.31	3.30	4.10	4.70	5.25
8	18	2.31	2.67	3.60	4.75	5.40	6.00
9	9	1.48	1.89	2.55	3.20	3.75	4.05
9	12	1.83	2.13	3.00	3.80	4.35	4.30
9	15	2.10	2.45	3.50	4.45	5.00	5.60
9	16	2.28	2.52	3.67	4.60	5.25	5.85
9	18	2.43	2.91	3.95	4.95	5.75	6.35
9	20	2.70	3.17	4.25	5.35	6.20	6.85
9	24	3.06	3.55	4.80	6.17	7.20	7.90
9	28	5.45	6.15	7.55	9.35	10.05	11.55
9	32	6.25	6.80	8.40	10.45	11.68	12.86
9	36	6.78	7.50	9.20	11.55	12.90	14.18
10	10	1.78	2.01	2.95	3.60	4.15	4.55
10	12	1.98	2.25	3.25	4.05	4.60	5.25
10	15	2.34	2.61	3.70	4.65	5.35	5.92
10	18	2.67	2.80	4.20	5.30	6.10	6.75
10	20	3.16	3.58	4.65	5.66	6.35	7.05
10	24	3.70	4.15	5.30	6.55	7.30	8.10
10	28	5.98	6.57	8.07	9.94	10.78	12.20
10	32	6.60	7.35	8.97	10.69	12.30	13.60
10	36	7.35	8.12	9.96	12.20	13.60	15.00
12	12	2.45	2.78	3.72	4.40	4.95	5.50
12	16	3.05	3.06	4.45	5.37	6.00	6.62
12	18	3.32	3.30	4.80	5.85	6.50	7.10
12	20	3.56	3.85	6.15	6.30	7.05	7.75
12	24	4.24	4.50	5.88	7.30	8.10	8.90
12	28	6.75	7.44	8.97	11.05	12.20	13.49
12	32	7.53	8.34	9.93	12.30	13.60	14.90
12	36	8.40	9.24	10.95	13.60	15.00	16.40
12	40	9.24	10.07	11.94	14.45	16.40	17.90
16	12	3.05	3.06	4.45	5.38	6.00	6.63
16	15	3.55	3.60	5.10	6.20	6.90	7.62
16	18	4.15	4.15	5.75	7.05	7.80	8.57
16	20	4.53	4.50	6.10	7.65	8.40	9.24
16	24	5.00	5.00	6.80	8.40	9.28	10.15
16	28	8.40	9.18	10.80	13.24	14.48	15.80
16	32	9.45	10.20	12.00	14.73	16.15	17.50
16	36	10.50	11.37	13.17	15.45	17.80	19.22
16	40	10.58	12.48	14.40	17.80	19.40	21.05
18	18	4.60	5.10	6.25	7.65	8.50	9.27
18	20	5.00	5.50	6.70	8.25	9.15	10.00
18	24	8.08	8.88	10.40	12.62	13.95	15.45
18	28	9.24	10.08	11.70	14.30	15.35	17.09
18	32	10.38	11.25	13.00	15.90	17.45	18.88
18	36	11.58	12.45	14.31	17.50	19.20	20.74
18	40	12.75	13.65	15.63	19.20	20.96	22.20
21	21	8.19	9.00	10.50	12.80	14.02	15.68
21	24	9.15	9.96	11.64	13.78	15.50	16.80
21	28	10.50	11.40	13.08	16.00	17.44	18.85
21	32	11.85	12.75	14.73	17.76	19.35	20.86
21	36	13.14	13.10	16.05	19.55	21.25	23.07
21	40	14.49	15.45	17.52	21.38	23.17	24.96
24	24	10.32	11.16	12.84	15.55	17.02	18.50
24	28	11.76	12.69	14.46	17.55	19.14	20.67
24	32	13.26	14.22	16.11	19.46	21.22	22.88
24	36	14.76	15.72	17.76	21.44	23.35	25.12
24	40	16.20	17.22	19.05	23.50	25.40	27.36
24	42	28.30	29.89	33.10	41.45	44.32	47.68

*Hinged on width or short side.

COLUMBIA SCREW COVER PULL BOXES



These pull boxes can be supplied in any thickness of steel, and in every size required. Due to the use of large conduits, it is often necessary to use a heavier gauge of steel than is called for by the code.

Cabinets are furnished with standard knockouts. If special knockouts are required, a \$1.75 labor charge for each additional size change will be made regardless of the quantity of boxes ordered.

If boxes are wanted without knockouts, please mention it. Boxes without knockouts take list price less discount.

Prices are for boxes finished in black enamel. For galvanized finish, add 10 per cent. Sizes not listed at proportionate prices.

Special pull boxes of any design, size and specification adapted to any requirement, are made to your order.

NO. 16 GAUGE STEEL—STANDARD

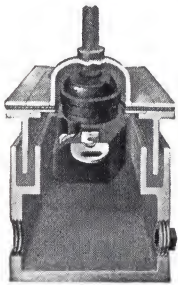
NOTE: The list prices of sizes which are omitted in this list must be made of heavier gauge steel to conform with the National Electric Code.

Width Inches	Height Inches	DEPTH IN INCHES					
		3 In.	4 In.	6 In.	8 In.	10 In.	12 In.
4	6	\$.96	\$1.17	.....	.....	.....	.....
4	8	1.08	1.32	.....	.....	.....	.....
4	10	1.20	1.44	\$1.83	.....	.....	.....
6	6	.94	1.08	1.88	\$2.05	.....	.....
6	9	1.15	1.48	2.26	2.54	.....	.....
6	10	1.32	1.58	2.41	2.70	.....	.....
6	11	1.41	1.70	2.26	2.98	.....	.....
6	12	1.50	1.68	2.66	3.06	.....	.....
6	16	1.80	2.04	3.00	3.78	.....	.....
6	8	1.05	1.32	2.13	2.36	.....	.....
8	8	1.28	1.53	2.30	2.76	.....	.....
8	10	1.47	1.72	2.55	3.16	\$3.60	.....
8	12	1.72	2.01	2.90	3.55	4.00	\$4.35
8	15	2.01	2.31	3.30	4.10	4.70	5.25
8	18	2.31	2.67	3.60	4.75	5.40	6.00
9	9	1.48	1.89	2.55	3.20	3.75	4.05
9	12	1.83	2.13	3.00	3.80	4.35	4.30
9	15	2.10	2.45	3.50	4.45	5.00	5.60
9	16	2.28	2.52	3.67	4.60	5.25	5.85
9	18	2.43	2.91	3.95	4.95	5.75	6.35
9	20	2.70	3.17	4.25	5.35	6.20	6.85
9	24	3.06	3.55	4.80	6.17	7.20	7.90
9	28	5.45	6.15	7.55	9.35	10.05	11.55
9	32	6.25	6.80	8.40	10.45	11.68	12.86
9	36	6.78	7.50	9.20	11.55	12.90	14.18
10	10	1.78	2.01	2.95	3.60	4.15	4.55
10	12	1.98	2.25	3.25	4.05	4.60	5.25
10	15	2.34	2.61	3.70	4.65	5.35	5.92
10	18	2.67	2.80	4.20	5.30	6.10	6.75
10	20	3.16	3.58	4.65	5.66	6.35	7.05
10	24	3.70	4.15	5.30	6.55	7.30	8.10
10	28	5.98	6.57	8.07	9.94	10.78	12.20
10	32	6.60	7.35	8.97	10.69	12.30	13.60
10	36	7.35	8.12	9.96	12.20	13.60	15.00
12	12	2.45	2.78	3.72	4.40	4.95	5.50
12	16	3.05	3.06	4.45	5.37	6.00	6.62
12	18	3.32	3.30	4.80	5.85	6.50	7.10
12	20	3.56	3.85	6.15	6.30	7.05	7.75
12	24	4.24	4.50	5.88	7.30	8.10	8.90
12	28	6.75	7.44	8.97	11.05	12.20	13.49
12	32	7.53	8.34	9.93	12.30	13.60	14.90
12	36	8.40	9.24	10.95	13.60	15.00	16.40
12	40	9.24	10.07	11.94	14.45	16.40	17.90
16	12	3.05	3.06	4.45	5.38	6.00	6.63
16	15	3.55	3.60	5.10	6.20	6.90	7.62
16	18	4.15	4.15	5.75	7.05	7.80	8.57
16	20	4.53	4.50	6.10	7.65	8.40	9.24
16	24	5.00	5.00	6.80	8.40	9.28	10.15
16	28	8.40	9.18	10.80	13.24	14.48	15.80
16	32	9.45	10.20	12.00	14.73	16.15	17.50
16	36	10.50	11.37	13.17	15.45	17.80	19.22
16	40	10.58	12.48	14.40	17.80	19.40	21.05
18	18	4.60	5.10	6.25	7.65	8.50	9.27
18	20	5.00	5.50	6.70	8.25	9.15	10.00
18	24	8.08	8.88	10.40	12.62	13.95	15.45
18	28	9.24	10.08	11.70	14.30	15.35	17.09
18	32	10.38	11.25	13.00	15.90	17.45	18.88
18	36	11.58	12.45	14.31	17.50	19.20	20.74
18	40	12.75	13.65	15.63	19.20	20.96	22.20
21	21	8.19	9.00	10.50	12.80	14.02	15.68
21	24	9.15	9.96	11.64	13.78	15.50	16.80
21	28	10.50	11.40	13.08	16.00	17.44	18.85
21	32	11.85	12.75	14.73	17.76	19.35	20.86
21	36	13.14	13.10	16.05	19.55	21.25	23.07
21	40	14.49	15.45	17.52	21.38	23.17	24.96
24	24	10.32	11.16	12.84	15.55	17.02	18.50
24	28	11.76	12.69	14.46	17.55	19.14	20.67
24	32	13.26	14.22	16.11	19.46	21.22	22.88
24	36	14.76	15.72	17.76	21.44	23.35	25.12
24	40	16.20	17.22	19.05	23.50	25.40	27.36
24	42	28.30	29.89	33.10	41.45	44.32	47.68

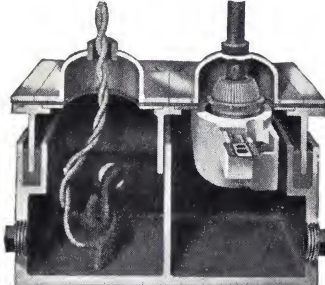
STEEL CITY ADJUSTABLE GANG FLOOR OUTLETS—ORIGINAL FULLMAN TYPE

These watertight rectangular gang floor boxes are for supplying a variety of services such as electric lights, fans, telephones, etc.—they appear neater than several individual outlets.

Like the Steel City Adjustable Round Floor boxes, their chief advantage lies in the ease with which the adjustable top can be set level with the finished floor line. Installed in concrete floors with the least amount of time and labor, and in addition, effect savings in conduit and wire.



No. 441 Adjustable Floor Outlet with No. 466 Nozzle



No. 442 Adjustable Floor Outlet with Two No. 466 Nozzles



No. 443 Adjustable Outlet with one No. 458 and Two No. 459 Cover Plates

COMPLETE STEEL CITY GANG FLOOR OUTLETS

Receptacles optional and cost extra. Any standard receptacle fits Steel City Original Fullman Floor Outlets, Adjustable Type.

Single-Gang

Cat. No.	Description	Approx. Wt. Lbs. Each
441	With one No. 458 or 459 Cover Plate..	6¼

Two-Gang

442	With two No. 458 or 459 Cover Plates	12
422L	With Lugs and two No. 458 or 459 Cover Plates	12
*442S	Shallow—with two No. 458 or 459 Cover Plates	12

Three-Gang

443	With three No. 458 or 459 Cover Plates	17¾
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Four-Gang

444	With four No. 458 or 459 Cover Plates	21½
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Five-Gang

445	With five No. 458 or 459 Cover Plates	28
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Six-Gang

446	With six No. 458 or 459 Cover Plates	32
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*Lowest adjustment 3½ inches. Highest adjustment, allowing ½-inch adjusting frame to seat in groove of box, 3¾ inches.

Dimensions of Complete Steel City Gang Floor Outlets

No. of Gangs	1	2	3	4	5	6
Min. height to top of Cover Plate, In.	3½	4	3¾	4¼	4½	4
Length overall, In....	4	7	10	13	16	19
Width overall, In.....	5½	5½	5½	5½	5½	5½
Max. height overall, In.	3½	4½	4½	4¾	4¾	4¾

PARTS

Box Bodies

Made of gray iron; electro-galvanized or sherardized.

Lugs are provided on each adjusting frame for mounting receptacles, etc.

End sections have three holes tapped for ½-inch conduit; intermediate sections have two holes tapped for ½-inch conduit. Sections can be tapped for ¾ and 1-inch conduit with room for bushings or for 1¼-inch conduit without room for bushings.

Extra deep bodies can be furnished at additional cost, to take conduit up to 1½ inches with room for bushings. Sketches should be furnished showing size and location of conduit holes if special tapping is desired.

Cat. No.	Description	Height Inches	Approx. Wt. Lbs. Each
447	1-Gang Box.....	2¾	4½
448	2-Gang Box.....	3¾	7½
449	3-Gang Box.....	3¾	11½
450	4-Gang Box.....	3¾	14
451	5-Gang Box.....	3¾	16½
452	6-Gang Box.....	3¾	19

Adjusting Frames with Rubber Gaskets and Edge Frame

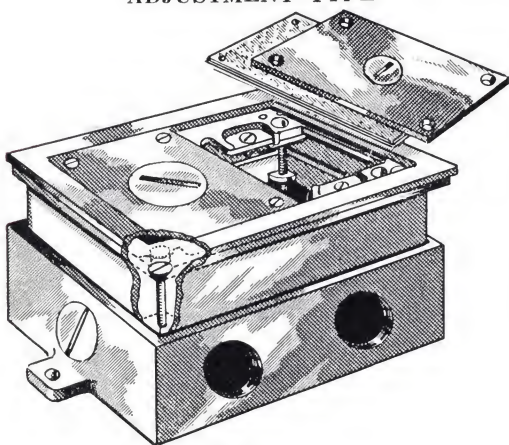
Adjusting frame of steel, electro-galvanized or sherardized. Bronze edge frame has statuary bronze finish.

The edge frame extends all around the cover plates, thus preventing chipping of floor when cover plates are removed.

Cat. No.	Description	Height Overall Inches	Approx. Wt. Lbs. Each
488	Adjusting Frame for 1-Gang Box Body	1¼	1½
453	Adjusting Frame for 2-Gang Box Body	1¾	2¾
454	Adjusting Frame for 3-Gang Box Body	1¾	4
455	Adjusting Frame for 4-Gang Box Body	1¾	6
456	Adjusting Frame for 5-Gang Box Body	1¾	7½
457	Adjusting Frame for 6-Gang Box Body	1¾	8¾

STEEL CITY ADJUSTABLE FLOOR OUTLETS

RECTANGULAR BOX — FULLMAN SCREW ADJUSTMENT TYPE



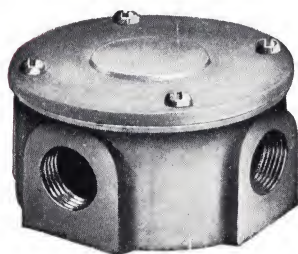
6542

Two-gang floor outlet similar to No. 442. Has four adjusting screws, one in each corner. Minimum height of box is $3\frac{1}{2}$ inches; maximum height 4 inches with $\frac{1}{8}$ inch of the adjusting frame still seated in the ring of box body. Can be tapped for 1-inch conduit with room for bushing or for $1\frac{1}{4}$ -inch conduit without bushing.

Cat. No.	Description	Wt. Lbs. Each
6542	Overall dims. $5\frac{1}{2}$ " wide, 7" long	$12\frac{1}{2}$

STEEL CITY WATER-TIGHT JUNCTION BOXES

HEAVY WALL CAST IRON AND BRASS



Boxes may be tapped on four sides, $\frac{1}{2}$ or $\frac{3}{4}$ -inch with room for bushing. Drilling or drilling and tapping at extra charge. Boxes furnished complete with covers and gaskets as listed. Covers furnished plain or drilled and drilled and tapped with holes plugged, if desired.

Illustration shows round head screws. Can be furnished with flat head and counter sunk holes.

Floor Box Nozzles can be used in cover plates of these boxes. Standard finish, black enamel; galvanized or sherardized, extra.

Cat. No.	Outside Dimens.		Wall Thickness	Inside Dimensions		Max. Cond. Size	Wt. Each	
	Diam. Incl. Boss	Depth Inches		Diam.	Depth		Box and Cover	Box Only
2470	$3\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{8}$	$2\frac{1}{8}$	$1\frac{3}{8}$	$\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$
2471	$3\frac{3}{4}$	$1\frac{1}{8}$	$\frac{1}{8}$	3	$1\frac{1}{2}$	$\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{3}{8}$
2472	$4\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{8}$	$3\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{1}{4}$	$3\frac{1}{4}$	3
2473	$4\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{8}$	$3\frac{3}{8}$	$2\frac{3}{8}$	$\frac{3}{4}$	$2\frac{7}{8}$	$2\frac{5}{8}$
2474	$4\frac{1}{4}$	$2\frac{1}{2}$	$\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{1}{8}$	$1\frac{1}{4}$	$2\frac{7}{8}$	$2\frac{5}{8}$
2475	$4\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{8}$	$3\frac{3}{8}$	$1\frac{3}{8}$	$\frac{3}{4}$	2	$1\frac{7}{8}$
2476	$5\frac{3}{4}$	3	$\frac{1}{8}$	4	$2\frac{5}{8}$	$1\frac{1}{2}$	$6\frac{1}{2}$	$5\frac{1}{2}$

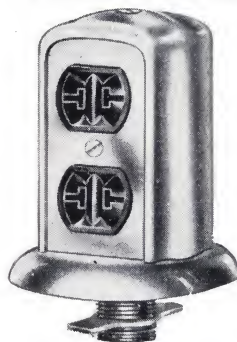
Brass—Natural Finish

Cat. No.	Diam. Incl. Boss	Depth Inches	Wall Thickness	Inside Diam.	Inside Depth	Max. Cond. Size	Box and Cover	Box Only
2480	$3\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{8}$	$2\frac{1}{8}$	$1\frac{3}{8}$	$\frac{3}{4}$	2	$1\frac{3}{4}$
2481	$3\frac{3}{4}$	$1\frac{3}{8}$	$\frac{1}{8}$	3	$1\frac{1}{2}$	$\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$
2482	$4\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{8}$	$3\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{1}{4}$
2483	$4\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{8}$	$3\frac{3}{8}$	$2\frac{3}{8}$	$\frac{3}{4}$	3	$2\frac{7}{8}$
2484	$4\frac{1}{4}$	$2\frac{1}{2}$	$\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{1}{8}$	$1\frac{1}{4}$	3	$2\frac{7}{8}$
2485	$4\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{8}$	$3\frac{3}{8}$	$1\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{4}$	2

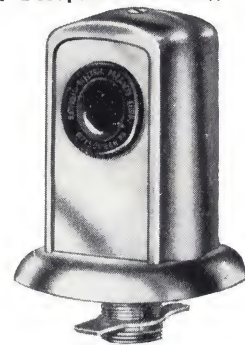
NATIONAL ELECTRIC "800" FLOOR BOX SERVICE FITTINGS

No. 803, No. 804 AND No. 809 BRUSHED BRASS OR ALUMINUM ALLOY FITTINGS

For Lighting, Heating, Power and Appliance Circuits or for Signal and Telephone Wiring



No. 803

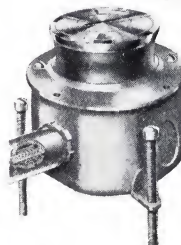


No. 804

No. 809 (not illustrated) is Floor Box Service fitting with 3-pole receptacle for standard 3-pole plugs.

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
803	Service Fitting	1	1	$1\frac{1}{2}$
804	Service Fitting	1	1	$1\frac{1}{2}$
809	Service Fitting	1	1	$1\frac{1}{2}$

"800" FLOOR BOXES



800 Box Complete

Are fully adjustable—1st for floor level; 2nd for height. Complete without receptacle.

Knockouts: Two $\frac{1}{2}$ -inch and two $\frac{3}{4}$ -inch in sides; three $\frac{1}{2}$ -inch and two $\frac{3}{4}$ -inch in bottom.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
800	1	5	10

Standard 4-inch octagon box, Electro-galvanized finish.

FLOOR BOX FITTINGS

No. 830 is a service fitting for Light and Power — receptacle combined with No. 821 floor box plug.



821



831



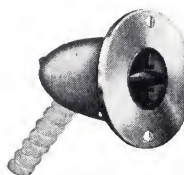
830

Cat. No.	Description	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
821	Plug and Sealing Ring for No. 822	1	10	$2\frac{1}{2}$
830	Floor Box Receptacle and Plug	1	10	$4\frac{1}{4}$
831	Floor Box Sheath (fitting for low potential, takes 3 twisted pairs)	1	10	$1\frac{1}{2}$

NATIONAL ELECTRIC "SPIGOTS" FOR ARMORED CABLE—GALVANIZED FINISH

NO. 60 UTILITY OUTLET

For $14\frac{1}{2}$ and $12\frac{1}{2}$ armored cable. For inside use. Complete with 10-amp., 250-volt or 15-amp., 125-volt receptacle and cable clamp.



U. S. Patent No. 1,943,001

Cat. No.	Std. Pkg.	Wt., Lbs. Std. Pkg.
60	50	25

NATIONAL ELECTRIC "PLUG-IN" STRIP

TYPE CF-2 CONSTANT SERVICE



CF2-606-18



CF2-603-6—CF2-606-6

TYPE CF-3 SWITCH-CONTROLLED



CF3-606-18
One Receptacle—Two Services

With National Electric's newly developed type CF-3 switch-controlled "Plug-In" Strip you now have your choice of electrical service . . . switch control at wall switches or constant current . . . all in one receptacle.

National Electric 3-wire type CF-3 "Plug-In" Strip is the most versatile pre-wired Multi-Outlet Assembly on the market today. Truly designed for Modern Living . . . it provides a S-P-R-E-A-D of electrical outlets, every 18" around the room, to meet the demands of Adequate Wiring. Plus . . . dual service features in every outlet receptacle. Top and middle slots give switch control for lamps and other lighting arrangements. Bottom and middle receptacle slots provide constant current to clocks, radios and other appliances.

400% More Outlets—Cost No More Than Ordinary Wiring

Type CF-2, 2 wire constant service, and type CF-3, dual service, "Plug-In" Strip features Cut-In-The-Field installation and Crimp-on method of connection . . . for faster . . . safer . . . easier installations. Capping is locked-on in the factory and is tamper proof. Once installed, "Plug-In" Strip is a trouble free life time system. No screws or solder points to break loose. "Plug-In" Strip's baked enamel neutral satin gray finish may be repainted to blend with any interior wall surface.

National Electric "Plug-In" Strip comes in 6-ft. lengths with outlets every 18 inches. To meet the demand for outlets on close spacing for commercial and light manufacturing use or for over the kitchen food preparation areas type CF-2 "Plug-In" Strip units are available in 3-ft. and 6-ft. lengths with outlets on 6-inch spacings.

Easy, Simple Installation Means More Wiring Jobs

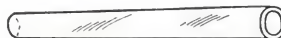
"Plug-In" Strip affords electricians and contractors an excellent opportunity to increase their wiring profits in new home construction, office and store rewiring as well as the modernization market in presently inadequately wired homes.

"Plug-In" Strip is wired with No. 12 AWG wire for 15 ampere, 125 volt or 10 ampere, 250 volt service. Furnished with 4 mounting clips and straps to facilitate either baseboard or chair rail height mounting.

Listed and approved by the Underwriters' Laboratories, Inc., the Canadian Standards Association, and complies with the regulations of the National Electrical Code.

Cat. No.	Length Feet	Plug-Ins Per Lgth.	Unit Pkg. Lgths.	Std. Pkg. Lgths.	Wt. Lbs. Std. Pkg.
CF2-606-18	6	4	1	10	26
CF2-603-6	3	5	1	10	15
CF2-606-6	6	11	1	10	26
CF2-615	6	0	1	10	23
CF3-606-18	6	4	1	10	35
CF3-615	6	0	1	10	27

NATIONAL ELECTRIC "PLUG-IN" STRIP



NE-600-1

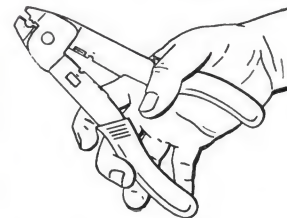


NE-600-2

Crimp Connector (right)—Especially processed tinned copper barrel Connector that crimps into a solid conductor mass and allows no corrosion. Has No. 12 copper conductivity. Furnished with all "Plug-In" Strip fittings.

Insulator Tube (left)—Transparent vinylite tubing with high dielectric properties. The tube is heavy in stock to withstand abuse. It fits the point of connection snugly and remains securely in place. Furnished with all barrel Connectors.

NE-600 CRIMPING TOOL



Has wire cutter and stripper for No. 12 and No. 14 solid wire.

NE Connector Tool. The approved tool for crimping a connector barrel to the "Plug-In" Strip conductors. This tool makes possible a complete and solid connection in less than ¼ the time of ordinary screw connection methods.

CF-2 "PLUG-IN" STRIP FITTINGS

CF2-607 MOUNTING CLIP

Clips which fasten to the back of "Plug-in" Strip for mounting on top of baseboard. Clips furnished with every length of "Plug-in" Strip.

Cat. No.	Unit Pkg.	Std. Pkg.
CF2-607	50	100



CF2-645 MOUNTING STRAP

For use when mounting "Plug-in" Strip on the surface. Mounting Straps furnished with every length of "Plug-in" Strip.

Cat. No.	Description	Unit Pkg.	Std. Pkg.
CF2-645	Mounting Strap	50	100



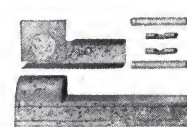
CF2-618 CENTER FEED JUNCTION BOX



½-inch conduit K.O. in base. Overall length 11 in. Furnished with barrel Connectors and Insulator Tubes and two jumpers for connecting to circuit.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-618	5	20	8

END FEED JUNCTION BOX



CF2-616-L

CF2-616-R

For bridging doorways, fireplaces, etc., or used as an end circuit feed. ½-inch conduit knockout in base. Furnished with Crimp Connectors and Insulator Tubes.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-616-L	6¾	5	20	5
CF2-616-R	6¾	5	20	5

NATIONAL ELECTRIC "PLUG-IN" STRIP 90 DEGREE AND STRAIGHT END JUNCTION BOX



CF2-617-L



CF2-617-R

For use as surface mounted feed — particularly for light commercial installations. 1/2-inch conduit knockouts on end and rear for connection of any type wiring. Furnished with Crimp Connectors and Insulator Tubes.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100
CF2-617-L	6 3/4	5	20	25
CF2-617-R	6 3/4	5	20	25

CF2-629 DEVICE AND OUTLET BOX COVER

For use as cover plate on Device and Outlet Box feed installations. Furnished with two splicing jumpers and Insulator Tubes. Overall length, 12 inches.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-629	5	20	10

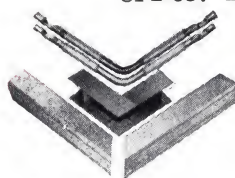
CF2-636 FLAT ELBOW

Two-piece capping elbow — over base. Each capping leg of elbow acts as a coupling cover to adjoining length of "Plug-in" Strip. With Crimp Connectors and Insulator Tubes.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-636	5	20	7

CF2-637 EXTERIOR ELBOW

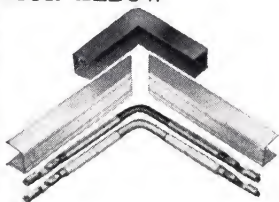


Two-piece capping Elbow — over base. Each capping leg of elbow acts as a coupling cover to adjoining length of "Plug-in" Strip. Furnished with 2 Crimp Connectors and Insulator Tubes. Overall length of elbow legs — 5 inches.

Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-637	5	20	6 1/2

CF2-638 INTERIOR ELBOW

Two-piece capping elbow — over base. Each capping leg of elbow acts as a coupling cover to adjoining length of "Plug-in" Strip. Furnished with Crimp Connectors and Insulator Tubes. Overall length of elbow legs, 5 3/4 inches.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-638	5	20	7 1/2

CF2-644 COUPLING



Covers open ends of adjoining lengths of "Plug-in" Strip. Furnished with Crimp Connectors and Insulator Tubes.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-644	5	5	20	2 1/2

Tubes — for connecting adjoining sections of "Plug-in" Strip.

NATIONAL ELECTRIC "PLUG-IN" STRIP CF2-680 END BLANK AND WIRE NUTS

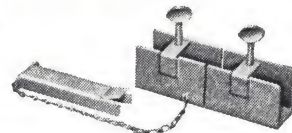


Covers cut-back opening at termination of "Plug-in" Strip runs. Furnished with two wire nuts for insulating conductor ends.

Cat. No.	Length Inches	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-680	2 1/2	5	20	1 1/4

CF2-623 CUTTING GAUGE

For use in cutting back "Plug-in" Strip and capping to desired measurements. "Cut in the field" principle of installation.



Cat. No.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF2-623	1	1	1

NATIONAL ELECTRIC "LOPO-TRIM"



Lopo-Trim Features the "No Fishing Principle"
Just Tuck the Wires In.



Neutral Satin Gray Finish

Lopo-Trim is a hollow steel quarter round raceway used to carry low potential wires such as telephone, inter-communication or television antenna leads on top of the baseboard.

Lopo-Trim has a neutral satin gray finish, matching "Plug-in" Strip, and harmonizes with all tones used in interior decoration. It can be quickly repainted to match baseboard, floor or walls.

Lopo-Trim fits neatly on top of any standard baseboard or on top of National Electric "Plug-in" Strip and held in place by projecting steel prongs. It is easily lifted to provide change of telephone placement or addition of wires.

Approved by telephone companies, Lopo-Trim can now be versatily installed —

As a baseboard trim,

As a toe-plate where wall or baseboard meet,

As a low potential wiring raceway or chair-rail moulding,

As a quarter round trim above or beneath (or both) installations of National Electric "Plug-in" Strip.

Low potential wiring can be brought out of Lopo-Trim anywhere. Merely drill a hole through the rounded surface—insert a standard grommet and bring wires out. The 6-foot sections of Lopo-Trim match perfectly for continuous installation. Sections are cut to fit and corners mitered identically like wood quarter round.

Cat. No.	Lengths Feet	Standard Package	Wt. Lbs. Std. Pkg.
LT-606	5' 8"	18-5' 8" Lengths	20

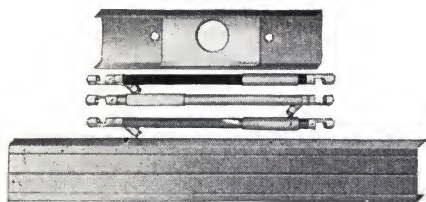
NATIONAL ELECTRIC "PLUG-IN" STRIP

TYPE CF-3 "PLUG-IN" STRIP

Features Simplicity of Fittings

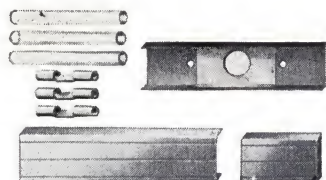
Installation of 3-Wire Switch Control "Plug-in" Strip is exactly the same as two-wire Strip . . . only one more conductor is crimped.

CF3-618 CENTER FEED JUNCTION BOX



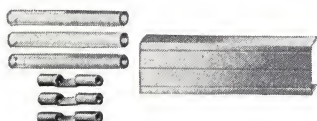
For connecting circuit wires to 3-wire "Plug-in" Strip. Furnished with 3 splicing jumpers and Insulator Tubes ready for crimp-on connection. 1/2-inch conduit knockout in base. Overall length 11 inches.

CF3-616 END FEED JUNCTION BOX



Reversible End Feed Junction Box accommodates circuit feed-ins on any end of 3-wire "Plug-in" Strip runs. Has 1/2-inch conduit knockout in base. Furnished with 3 Crimp Connectors and Insulator Tubes for crimp-on connection. Overall length 8 1/2 inches.

CF3-644 COUPLING CAPPING



Covers open end of adjoining lengths of "Plug-in" Strip. Furnished with Crimp Connectors and Insulator Tubes. Overall length 5 inches.

CF3-680 END BLANK AND WIRE NUTS

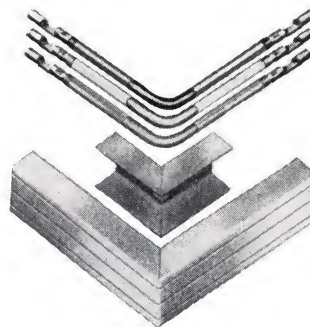


To cover cut-back opening at termination of "Plug-in" Strip runs. Furnished with three Wire Nuts for insulating conductor ends. Overall length 2 1/2 inches.

NATIONAL ELECTRIC "PLUG-IN" STRIP

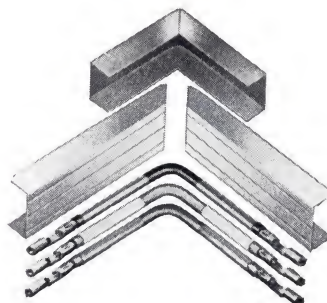
3-WIRE "PLUG-IN" STRIP ELBOWS

CF3-637 EXTERIOR ELBOW



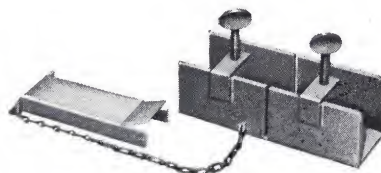
Elbow is one-piece capping over base. Capping leg of Elbow acts as Coupling Cover to adjoining length of "Plug-in" Strip. Elbows are furnished with three copper jumpers and Insulator Tubes ready for crimp-on connection. Overall length of each leg—5 inches.

CF3-638 INTERIOR ELBOW



Elbow is two-piece capping over base. Capping leg of Elbow acts as Coupling Cover to adjoining length of "Plug-in" Strip. Elbow is furnished with three copper jumpers and Insulator Tubes ready for crimp-on connection. Overall length of each leg—5 inches.

CF3-623 CUTTING GAUGE



For use in cutting back 3-wire "Plug-in" Strip and capping to desired measurements. See illustrated catalog No. 554 for "cut-in-the-field" principle of installation.

TRUMBULL FLEX-A-POWER**LVD (Low Voltage Drop) Flex-A-Power**

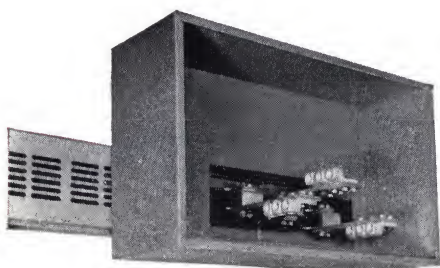
This modern feeder busway is available with current ratings of from 600 to 4000 amperes, in two-, three-, or four-pole construction, and is suitable for 600-volt service. Low voltage drop characteristics are the result of close bar spacings and interlaced construction which keep reactance to a minimum. Although LVD is generally used as a service entrance or as a high capacity feeder, it is ideally suited to many other applications, such as risers and resistance welder feeders.



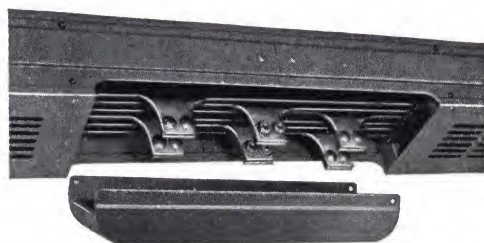
Standard LVD section with edgewise bent bus bars. These standard joints are easily bolted together.

LVD enclosures have specially designed vents for efficient air flow. Insulating material which encloses each conductor individually, is mechanically strong, moisture resistant, and has a high factor of heat transmission.

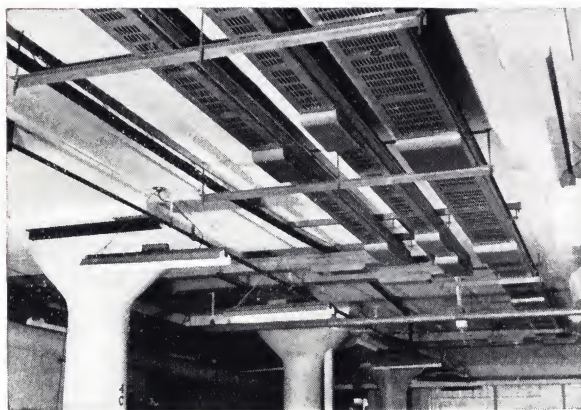
A complete line of standard fittings is available, including end boxes, cable tap boxes, elbows, T's, offsets, etc.



Cable Tap Box



Bolted bus bar joint and cover. Copper bars are edgewise bent with an offset at end of each section to facilitate the alignment of conductors.



Typical Installation of LVD Flex-A-Power



Cross section showing standard hanger.

TRUMBULL LVD FLEX-A POWER

List Prices For Standard Lengths

Ampere Rating	Bars per Pole	Neutral Bars	List Price per Foot	
			Three Pole	3 Phase, 4 Wire
600	(One) 1/4 x 2	(One) 1/4 x 2	\$ 17.60	\$ 22.00
800	(Two) 3/16 x 2	(One) 3/16 x 2	23.10	28.60
1000	(Two) 1/4 x 2	(One) 1/4 x 2	28.60	34.10
1350	(Three) 3/16 x 2	(Two) 3/16 x 2	34.10	39.60
1600	(Three) 1/4 x 2	(Two) 1/4 x 2	39.60	45.10
2000	(Four) 1/4 x 2	(Two) 1/4 x 2	52.80	60.50
2500	(Five) 1/4 x 2	(Three) 1/4 x 2	77.00	88.00
3000	(Six) 1/4 x 2	(Three) 1/4 x 2	93.50	110.00
4000	(Eight) 1/4 x 2	(Four) 1/4 x 2	121.00	143.00

† Also available in 2 and 4 pole and multi-circuit arrangements

1. Standard ten-foot lengths and standard fittings should be used wherever possible.
2. Two hangers and necessary joint hardware are included with each section of busway.
3. For weather-resistant type and corrosion-resistant construction refer to

nearest district office

4. When an LVD run is estimated, if field measurements indicate a fraction of a foot, the next higher even foot should be figured.
5. Branch protective devices consisting of either fusible adapter switches, Type AT circuit breakers, or air circuit breakers, are available. Additional information on request.

LVD FITTINGS AND ACCESSORIES

Ampere Rating	Elbows (1)	"T" Connections (1)	Cable Tap Boxes		End Boxes (3)	Flange Connections (4)	Transformer Tap Openings (5)	Ebony End Closures (4)	Bus bar extensions per foot	
			Size I (2)	Size II (2)					Straight (6)	Formed (6)
THREE POLE										
600	\$ 88.00	\$110.00	\$110.00	\$121.00	\$11.00	\$33.00	\$50.00	\$33.00	\$ 9.90	\$11.88
800	88.00	110.00	116.00	127.00	16.50	35.00	55.00	39.00	13.00	15.60
1000	88.00	110.00	121.00	132.00	17.50	37.00	61.00	44.00	18.50	22.20
1350	88.00	110.00	127.00	140.00	18.50	40.00	66.00	50.00	23.00	27.60
1600	88.00	110.00	132.00	145.00	20.00	42.00	72.00	55.00	29.00	34.80
2000	88.00	110.00	138.00	164.00	24.00	44.00	77.00	61.00	39.00	46.80
2500	88.00	110.00	143.00	183.00	26.00	46.00	83.00	66.00	46.00	55.20
3000	110.00	132.00	160.00	199.00	29.00	48.00	88.00	72.00	56.00	67.20
4000	110.00	132.00	220.00	286.00	33.00	51.00	94.00	77.00	75.00	90.00
THREE PHASE, FOUR WIRE										
600	110.00	132.00	121.00	132.00	11.00	33.00	50.00	33.00	11.00	13.20
800	110.00	132.00	127.00	138.00	16.50	35.00	55.00	39.00	16.50	19.80
1000	110.00	132.00	132.00	143.00	17.50	37.00	61.00	44.00	22.00	26.40
1350	110.00	132.00	138.00	155.00	18.50	40.00	66.00	50.00	28.00	33.60
1600	110.00	132.00	143.00	161.00	20.00	42.00	72.00	55.00	33.00	39.60
2000	110.00	132.00	149.00	179.00	24.00	44.00	77.00	61.00	43.00	51.60
2500	110.00	132.00	154.00	198.00	26.00	46.00	83.00	66.00	54.00	64.80
3000	132.00	154.00	171.00	219.00	29.00	48.00	88.00	72.00	65.00	78.00
4000	132.00	154.00	231.00	306.00	33.00	51.00	94.00	77.00	87.00	104.40

- (1) Price on Elbows and "T" Connections includes labor of forming only; no footage included.
- (2) Price for Cable Tap Boxes includes labor of forming, material and lugs. Capacity of Cable Tap Boxes is determined by the number of lugs and type of wire used.
All standard Size I Cable Tap Boxes are provided with two S1250 1/2A lugs per pole and one S1250 1/2A lug per neutral. Alternate lug arrange-

ments can be furnished as specified, not to exceed two per pole and one per neutral in sizes S1248 1/2A to S1250 1/2A inclusive.
Alternate lug arrangements can be furnished with a maximum of six per pole and three per neutral in sizes S1248 1/2A through S1251 1/2A. When desired number of lugs exceeds the quantity indicated in the above table, refer to district office for prices.

- (3) List price includes material and labor of forming.
- (4) Flange connections and Ebony End Closures: List price includes material and labor of forming. Bus bar extensions and cutouts in switchboards or similar equipment NOT included.
- (5) Transformer tap openings: List price includes opening in side of housing and ebony plate with necessary labor and material. Bus bar extensions NOT included.
- (6) Copper bus bar extensions: List price per foot includes material and labor of forming for straight and formed extensions.

Size II Cable Tap Boxes furnished with lugs as follows:

LVD Ampere Rating	Lugs per Pole	Lugs per Neutral	Lug Size
600	2	1	S1250 1/2A
800	2	1	S1251 1/2A
1000	3	2	S1250 1/2A
1350	3	2	S1251 1/2A
1600	4	2	S1251 1/2A
2000	5	3	S1251 1/2A
2500, 3000, 4000	6	3	S1251 1/2A

TRUMBULL FLEX-A-POWER

Type FVK



Standard 10-ft. lengths

This plug-in busway is available in current ratings from 225 to 1000 amperes. The two- and three-pole designs are suitable for 600-volt service. The three-phase, four-wire design is listed for 120/208-volt service but it can be obtained for 277/480-volt service in current ratings from 225 to 600 amperes. Convenient power outlets are provided on 12" centers along the housing. Power takeoffs are made by means of Flex-A-Plugs which contain fusible switches or enclosed circuit breakers. Since these devices are easily installed or relocated as desired, FVK generally feeds power to a number of individual loads at various points along the run. Thus, because FVK is so convenient, it is often considered to be a panelboard running the length of the plant.

FVK FLEX-A-POWER SYSTEM AND ACCESSORIES

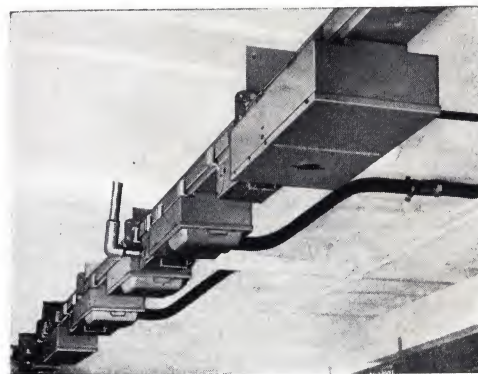
Standard 10-Ft. Lengths

Amperes	Phase Conductor Size	Three Pole		Three Phase, 4 Wire, 120/208 V. S. N.	
		Catalog Number	List Price Each	Catalog Number	List Price Each
225	$\frac{3}{16}$ x 1	FVK-362B	\$66.00	FVKN-322B	\$88.00
400	$\frac{3}{16}$ x 2	FVK-364	105.00	FVKN-324	138.00
600	$\frac{1}{4}$ x 2	FVK-366	132.00	FVKN-326	165.00
800	$\frac{3}{16}$ x 4	FVK-368	198.00	FVKN-328	242.00
1000	$\frac{1}{4}$ x 4	FVK-3610	242.00	FVKN-3210	303.00

Other standard lengths, 2, 3, 4 and 5 ft., available at pro-rated cost.



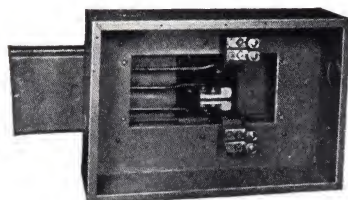
Left. A typical installation of FVK Flex-a-Power showing convenience of feeding individual machines. Equipment may be easily relocated without affecting production of other machines.



FVK Flex-A-Power and Flex-A-Plugs

TRUMBULL FLEX-A-POWER

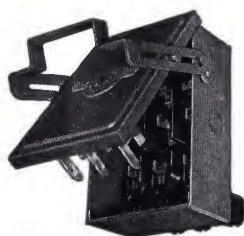
FVK Flex-A-Power



Cable Tap Box



End Box



FL Fusible Flex-A-Plug



FD Fusible Flex-A-Plug

Amperes	Cable Top Boxes Joint and End-of-Run Type		End Boxes	
	Catalog Number	List Price Each	Catalog Number	List Price Each
THREE POLE				
225	SKCB-32	\$55.00	SKEB-34	\$11.00
400	SKCB-34A	55.00	SKEB-36	11.00
600	SKCB-36	55.00	SKEB-36	11.00
800	SKCB-310	77.00	SKEB-310	16.50
1000	SKCB-310	77.00	SKEB-310	16.50

3 PHASE, 4 WIRE				
225	SKCBN-32	\$66.00	SKEBN-34	\$11.00
400	SKCBN-34A	66.00	SKEBN-36	11.00
600	SKCBN-36	66.00	SKEBN-36	11.00
800	SKCBN-310	88.00	SKEBN-310	16.50
1000	SKCBN-310	88.00	SKEBN-310	16.50

STANDARD 2 x 2 FT. ELBOWS					
Amperes	Flat Right Catalog Number	Flat Left Catalog Number	Edgewise External Catalog Number	Edgewise Internal Catalog Number	List Price Each

THREE POLE					
225	FRE-362	FLE-362B	EEE-362B	EIE-362B	\$ 92.00
400	FRE-364	FLE-364	EEE-364	EIE-364	108.00
600	FRE-366	FLE-366	EEE-366	EIE-366	119.00
800	FRE-368	FLE-368	EEE-368	EIE-368	145.00
1000	FRE-3610	FLE-3610	EEE-3610	EIE-3610	163.00

3 PHASE, 4 WIRE					
225	FREN-362	FLEN-362	EEEN-362	EIEN-362	\$114.00
400	FREN-364	FLEN-364	EEEN-364	EIEN-364	134.00
600	FREN-366	FLEN-366	EEEN-366	EIEN-366	145.00
800	FREN-368	FLEN-368	EEEN-368	EIEN-368	176.00
1000	FREN-3610	FLEN-3610	EEEN-3610	EIEN-3610	200.00

*FLEX-A-PLUGS

Type "FL" Double Break Switch Plug

Amperes	250 V. 3 Pole			250 V. 3 Phase 4 Wire			575 V. 3 Pole		
	Catalog Number	H. P., A. C.	List Price Each	Catalog Number	H. P., A. C.	List Price Each	Catalog Number	H. P., A. C.	List Price Each
30	FL-321	3	\$24.00	FLN-321	3	\$35.00	FL-361	7 1/2	\$24.00
60	FL-322	7 1/2	24.00	FLN-322	7 1/2	35.00	FL-362	20	24.00
100	FL-323		33.00	FLN-323		48.00	FL-363		39.00

Type "FD" Motor Circuit Switch Plug

30	FD-321	3	\$36.00	FDN-321	3	\$43.00	FD-361	7 1/2	\$36.00
60	FD-322	7 1/2	41.00	FDN-322	7 1/2	47.00	FD-362	20	41.00
100	FD-323	15	63.00	FDN-323	15	76.00	FD-363	30	69.00
200	FD-324A	30	106.00	FDN-324A	30	125.00	FD-364A	50	119.00
400	FD-325	50	211.00	FDN-325	50	233.00	FD-365		241.00

* Circuit Breakers Flex-A-Plugs, Type "FCE," are available. Prices on request.
Also available: Ground Detector, Neutralizer, Transformer and Capacitor Flex-A-Plugs.

TRUMBULL FLEX-A-POWER

LTG Flex-A-Power

This unusually rugged, plug-in or trolley busway is rated 50 amperes. It is available in two-, three-, or four-pole construction, and is rated 250 volts. When employed as a plug-in busway, it is generally used to supply lighting, combined power and lighting, or small power loads. As a trolley busway it is used to feed portable tools, cutting machines, small cranes, etc. Because of its many applications, it is the most versatile member of the Flex-A-Power family.



STANDARD LENGTHS—Rated 50 Amperes, 250 Volts

Length	Two Pole		Three Pole		Four Pole	
	Catalog Number	List Price Each	Catalog Number	List Price Each	Catalog Number	List Price Each
10'	LTG222	\$9.00	LTG322	\$15.50	LTG422	\$21.00
9'	LTG222-9	9.00	LTG322-9	15.50	LTG422-9	21.00
8'	LTG222-8	9.00	LTG322-8	15.50	LTG422-8	21.00
7'	LTG222-7	8.00	LTG322-7	14.00	LTG422-7	19.00
6'	LTG222-6	8.00	LTG322-6	14.00	LTG422-6	19.00
5'	LTG222-5	7.50	LTG322-5	13.00	LTG422-5	18.00
4'	LTG222-4	7.50	LTG322-4	13.00	LTG422-4	18.00
3'	LTG222-3	5.50	LTG322-3	10.00	LTG422-3	13.50
2'	LTG222-2	5.50	LTG322-2	10.00	LTG422-2	13.50
1'	LTG222-1	3.50	LTG322-1	6.50	LTG422-1	9.00

Note: Coupling plate, and bus bar connectors not included.

COUPLING PLATES AND BUS BAR CONNECTORS

Used to Join Housings



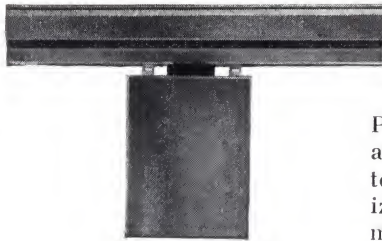
LTG-BCP3

Poles	Catalog Number	List Price Each
2	LTG-BCP-2	\$2.00
3	LTG-BCP-3	2.50
4	LTG-BCP-4	3.00

TRUMBULL FLEX-A-POWER

LTG Plugs

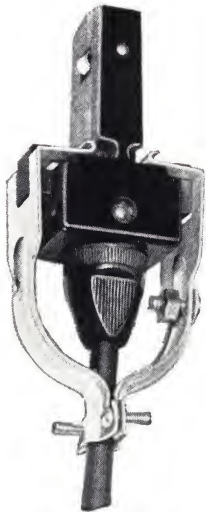
For Stationary Power Take-Off



FUSIBLE PLUG

For prices consult nearest Trumbull district office.

Plugs are furnished with cable clamp. Made of molded plastic and silver alloy contacts for firm positive pressure. Cable claws hold the plug firmly to housings. Plugs can be polarized for 2 and 3 pole service. Plastic polarizing piece included. The two pole plug can receive parallel blade attachment cap.



Unfused Plug

Catalog Number	List Price Each	Rating	Poles
TRP221 **	\$2.50	15 A, 125 Volts *	2
TRP221A †	3.00	10 A, 250 Volts AC	
TRP221B †	3.00	15 A, 125 Volts DC ‡	
TRP221C †	3.00	20 A, 250 Volts AC	
RP221 #	2.00	15 A, 125 Volts, 10 A, 250 Volts AC	3
TRP321	5.00	20 A, 250 Volts AC	
TRP421	7.50	20 A, 250 Volts AC	4

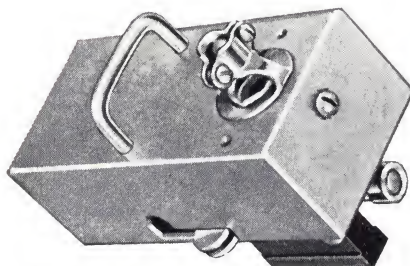
#Receptical Plug only.
 **Can be used with 2 and 3 pole housings.
 ‡2 Pole Phase Plug for use on 4 Pole systems.
 *Where parallel blade attachment is used.
 †Where wire terminals are used.

TROLLEY COLLECTORS

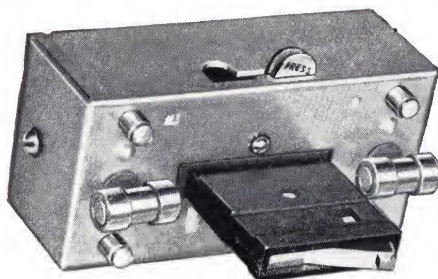
Trolleys are furnished with cable clamp and tool holder. Trolley can be inserted or removed at any point in the run — No “drop-out” section is necessary assuring a stronger housing. Top cover easily removed for wiring — Silver contacts are standard. Trolleys can be used only on the system they were designed for.

Unfused

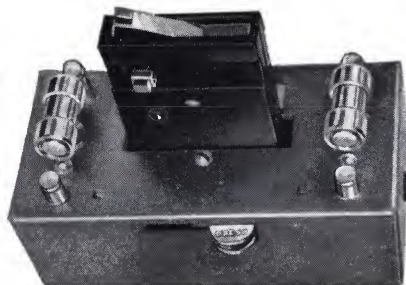
Catalog Number	List Price Each	Poles	Rating
TRT221	\$12.00	2	15 A, 250 Volts
TRT321	16.00	3	15 A, 250 Volts
TRT421	20.00	4	15 A, 250 Volts



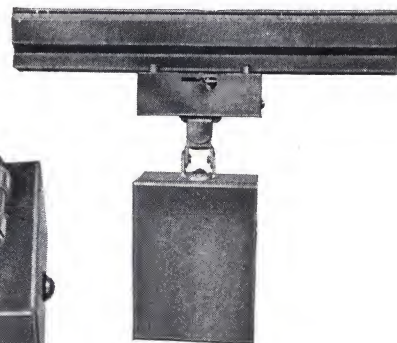
Trolley showing cable clamp and tool hanger



Trolley ready to insert in housing—rollers horizontal with housing



Trolley inserted in housing—rollers vertical to housing



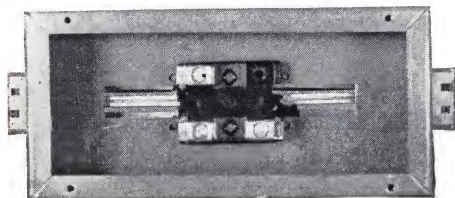
FUSIBLE TROLLEYS

For prices consult nearest Trumbull district office.

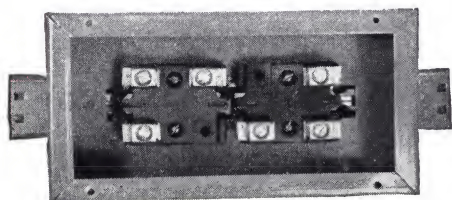
TRUMBULL FLEX-A-POWER
LTG Flex-A-Power
FITTINGS AND ACCESSORIES

FEED-IN BOXES

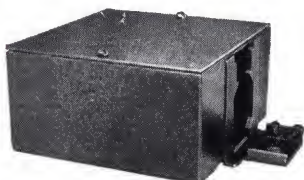
Boxes are rated 50 amperes (unless otherwise indicated), 250 volts. Open type boxes have the terminal box mounted on top of the trough with screw-on cover at top. Flush type feed-in boxes are even with the trough with screw-on cover at bottom.



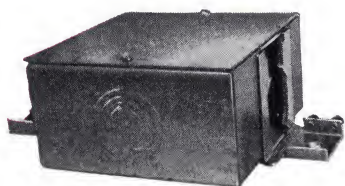
OCS322



OCB322



FEB322



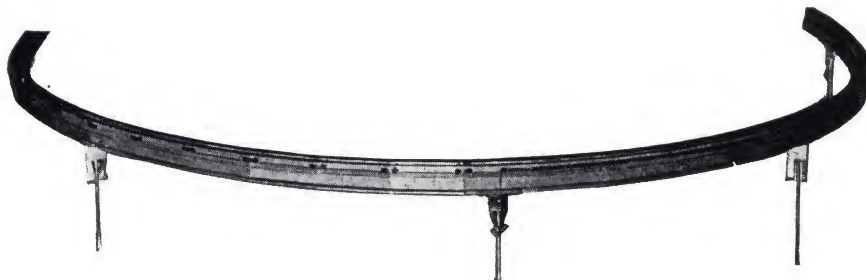
FCB322

ELBOWS

FE322

RADIUS SECTIONS

also available. Prices and detailed information on request.



Type	Poles	Catalog Number	List Price Each
Open type * center feed	2	OCB222	\$9.00
	3	OCB322	15.50
	4	OCB422	21.00
Open type * sectionalizing center	2	OCS222	10.50
	3	OCS322	17.50
	4	OCS422 **	23.00
Flush type † end feed	2	FEB222	7.50
	3	FEB221 20 Amps.	4.00
		FEB322	12.00
		FEB321 20 Amps.	6.00
	4	FEB422	16.00
Flush type † center feed	2	FEB421 20 Amps.	8.00
		FCB222 **	9.00
		FCB322 **	18.00
Flush type † sectionalizing center	3	FCB422 **	24.00
	4	FCS222 **	9.00

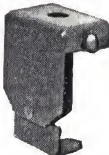








* Does not include coupling plate and bus connectors.

† Coupling plate and bus connectors included.

** Not Underwriter's approved.

Type	Poles	Catalog Number	List Price Each
INSIDE	2	IE222	\$16.00
	3	IE322	16.00
	4	IE422	18.00
OUTSIDE	2	EE222	16.00
	3	EE322	16.00
	4	EE422	18.00
FLAT	2	FE222	16.00
	3	FE322	16.00
	4	FE422	18.00

TRUMBULL FLEX-A POWER
LTG Flex-A-Power
ACCESSORIES

	Catalog Number	Description	List Price Each
Catalog No. LTG-EC	LTG-EC	Universal End-cap with mounting screws. Used to close up end of run. Hole cap permits insertion of hanger for mounting cap screws to housing.	\$1.00
	LTG-MS	Hanger with messenger cable support hooks and sliding plate	.55
	LTG-MF	Hanger with messenger cable support hooks and screw-clamped hanger plate	.50
Catalog No. LTG-MS	LTG-M	Messenger cable hook assembly	.60
Catalog No. LTG-MF	LTG-M	Messenger cable hook assembly	.35
	LTG-S	Sliding type hanger plate with counter sunk head screw and nut.	.30
Catalog No. LTG-M	LTG-F	Screw clamped hanger plate with counter sunk head screw and nut.	.25
	LTG-FS	Fixture support—single hook type.	.45
	LTG-UFS	Universal fixture support.	.75
Catalog No. LTG-FS	LTG-MCP	Coupling plate with messenger cable support hooks and sliding plate.	1.30
Catalog No. LTG-UFS	LTG-CP	Coupling plate only for joining housings.	1.25
	LTG-MCP	Coupling plate with messenger cable support hooks and sliding plate.	1.00
Catalog No. LTG-CP	LTG-BC	Busbar connector used for joining busbars—(1 per pole).	.50
	LTG-BC	Busbar connector used for joining busbars—(1 per pole).	.50
Catalog No. LTG-BC	FP-21	Fusible convenience plug for use with 2-pole plugs only. Takes one or two 1/4" x 1 1/4" 3 AG glass fuses rated up to 8 amperes. Fuses not included.	.50
	FP-21	Fusible convenience plug for use with 2-pole plugs only. Takes one or two 1/4" x 1 1/4" 3 AG glass fuses rated up to 8 amperes. Fuses not included.	.50
Catalog No. FP-21	LTG-SEC	Sectionalized coupling (Two Catalog Number LTG-EC mounted back to back).	2.00

TRUMBULL FLEX-A-POWER TK Flex-A-Power

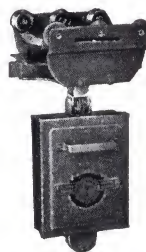
This 100* ampere heavy duty trolley busway is available in two or three pole construction and is suitable for 575-volt service. It is generally used for large cranes or portable tools, although it can be used wherever a mobile power take off is required.



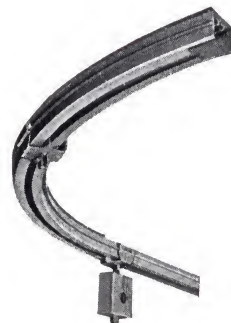
10-foot length showing housing construction and bus bars



Method of installing or removing a trolley collector



Trolley Collector



Trolley-closur Radii

TROLLEY-CLOSUR was developed to provide industry with a safer, better standardized system for supplying power to portable electrically driven tools, hoists, cranes, drills, screw drivers, cutting machines, special high-frequency, high-speed tools. This System is used extensively as a feeder in crane-ways, supplying power to the crane bridge. It also is employed on the bridge to provide power take-off for the transverse travel motor of the hoist and to feed the motor hoist.

Radius sections permit Trolley-Closur to be used paralleling mono-rail systems providing mobile power to electric hoists.

The current flowing in the bus bars is collected by trolleys which serve and directly connect to portable or movable electrical devices. Standard Trolley Collectors are designed to take-off 30 amperes maximum.

Standard Trolley-Closur is not intended for outside use.

*200- and 400-ampere ratings available on request.



TROLLEY-CLOSUR SYSTEM COLLECTORS AND ACCESSORIES TROLLEY-CLOSUR

	10 foot lengths—100 amperes			
	Three Pole		Two Pole	
	Catalog Number	List Price Each	Catalog Number	List Price Each
Without Slide-out Feature.....	TK363	\$60.00	TK223	\$55.00
With Slide-out Feature.....	TK3630	70.00	TK2230	65.00

TROLLEY COLLECTORS—STANDARD ROLLER CONTACTS

Amperes		Three Pole		Two Pole	
		Catalog Number	List Price Each	Catalog Number	List Price Each
30	No-Fuse 250-575V.....	PC361	\$20.00	PC261	\$17.00
30	Fusible 250 volt.....	PCF321	43.00	PCF221	38.00
30	Fusible 575 volt.....	PCF361	60.00		

Standard Accessories

End Box Only, Cat. No. TK36B.....	List \$3.50
Feed-in Box Only (Lugs for No. 1 Wire), Cat. No. TK36M.....	List 9.00
Heavy Duty End Box and Feed-in Box, Cat. No. TK36MB.....	List 12.50

Less than standard 10-ft. lengths—\$33.00 setup charge per length plus straight footage at standard prices.

Radii sections—\$44.00 per lineal foot or fraction thereof.

For Tool Support add suffix H to Catalog No. and add \$3.00 to List Price.

NATIONAL ELECTRIC REGULAR BUILDING WIRES

NUMBER OF CONDUCTORS IN CONDUIT OR TUBING

Rubber Covered, Types RF-32, R, RH, RW and RU
Thermoplastic, Types TF and TW

One to Nine Conductors

Table 4 of 1947 N.E.C.

Size AWG MCM	Number of Conductors in One Conduit or Tubing								
	1	2	3	4	5	6	7	8	9
18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
16	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
14	1/2	1/2	1/2	1/2	3/4	3/4	3/4	1	1
12	1/2	1/2	1/2	3/4	3/4	1	1	1	1 1/4
10	1/2	3/4	3/4	3/4	1	1	1 1/4	1 1/4	1 1/4
8	1/2	3/4	1	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2
6	1/2	1	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2
4	3/4	1 1/4	*1 1/4	1 1/2	2	2	2	2	2 1/2
3	3/4	1 1/4	1 1/4	1 1/2	2	2	2	2 1/2	2 1/2
2	3/4	1 1/4	1 1/2	1 1/2	2	2	2 1/2	2 1/2	2 1/2
1	3/4	1 1/2	1 1/2	2	2	2 1/2	2 1/2	3	3
0	1	1 1/2	2	2	2 1/2	2 1/2	3	3	3
00	1	2	2	2 1/2	2 1/2	3	3	3	3 1/2
000	1	2	2	2 1/2	3	3	3	3 1/2	3 1/2
0000	1 1/4	2	2 1/2	2 1/2	3	3	3 1/2	3 1/2	4
250	1 1/4	2 1/2	2 1/2	3	3	3 1/2			
300	1 1/4	2 1/2	3 1/2	3	3 1/2	3 1/2			
350	1 1/4	2 1/2	3	3 1/2	3 1/2	4			
400	1 1/4	3	3	3 1/2	4	4			
500	1 1/2	3	3	3 1/2	4	4 1/2			
600	2	3	3 1/2	4	4 1/2	5			
700	2	3 1/2	3 1/2	4 1/2					
750	2	3 1/2	3 1/2	4 1/2					
800	2	3 1/2	4	4 1/2					
900	2	3 1/2	4	4 1/2					
1000	2	4	4	5					
1250	2 1/2	4 1/2	4 1/2	6					
1500	2 1/2	4 1/2	5	6					
1750	3	5	5	6					
2000	3	5	6						

*Where a service run of conduit or electrical metallic tubing does not exceed 50 feet in length and does not contain more than the equivalent of two quarter bends from end to end, two No. 4 insulated and one No. 4 bare conductors may be installed in 1-inch conduit or tubing.

NATIONAL ELECTRIC WIRES

NATIONAL "DILEC" SAFECOTE
BUILDING WIRE

Types R, RH and RW — 600-Volt

14 R 600 V - National DILEC S

Regular (but not ordinary) building wire. Known for its slick, smooth, slipper finish, that gives 300% easier fishing. Flame-retardant, moisture-resistant finish that will not carry flame or absorb moisture. Rubber insulation strips freely and cleanly from tinned copper conductors, no scraping or sanding necessary.

Single Fibrous Covering

Size AWG	Thick. Insula- tion In.	Solid			Stranded		
		App. O.D. In.	Pkg. Ft. Coil	Wt. Lb. Std. Pkg.	App. O.D. In.	Pkg. Ft. Coil	Wt. Lb. Std. Pkg.
14	2/64	.153	500	13	.161	500	14
14	2/64*	.184*	500†	14	.192*	500	15
12	2/64	.170	500	17	.180	500	18
12	2/64*	.190*	500†	18	.211*	500	20
10	3/64	.222	500	25	.237	500	27
8	4/64	.281	500	41	.298	500	43

†500-ft. coil in carton.

With Double Fibrous Covering

Two Safecote saturated Fibrous Coverings are furnished on sizes 14 to 8 inclusive, on sizes No. 6 and larger a rubber-filled tape replaces the first or inner covering.

Solid — Double Fibrous Covering

Size A.W.G. or C.M.	Thickness Insulation Inches	Approx. O.D. Inches	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Std. Pkg.
14	2/64	.169	500	14
14	2/64*	.190*	500	15
12	2/64	.186	500	19
12	3/64*	.217*	500	20
10	3/64	.242	500	28
8	4/64	.299	500	43
6	4/64	.333	500	62

Stranded — Double Fibrous Covering

Size	Thickness Insulation Inches	Approx. O.D. Inches	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Std. Pkg.
14	2/64	.177	500	15
14	3/64*	.208*	500	16
12	2/64	.196	500	20
12	3/64*	.231*	500	21
10	3/64	.255	500	29
8	4/64	.316	500	46
6	4/64	.364	500	64
4	4/64	.417	500	96
Reels				
3	4/64	.445	1000	286
2	4/64	.478	1000	334
1	5/64	.548	1000	420
1/0	5/64	.588	1000	499
2/0	5/64	.634	1000	596
3/0	5/64	.686	1000	719
4/0	5/64	.744	1000	919
250,000	6/64	.838	1000	1164
300,000	6/64	.903	1000	1341
350,000	6/64	.954	1000	1502
400,000	6/64	1.001	1000	1675
500,000	6/64	1.088	1000	2017
600,000	7/64	1.200	1000	2464
700,000	7/64	1.269	1000	2799
750,000	7/64	1.303	1000	2960
800,000	7/64	1.333	1000	3203
900,000	7/64	1.399	1000	3549
1,000,000	7/64	1.456	1000	3885
1,250,000	8/64	1.635	500	2555
1,500,000	8/64	1.757	500	2975
1,750,000	8/64	1.873	500	3385
2,000,000	8/64	1.979	500	3800

*The dimensions for Type RW Conductors.

NATIONAL ELECTRIC WIRES

FIXTURE WIRE

Types RF and RHF — 300-Volt



In size 18 Underwriters' Laboratories approve both 1/64- and 1/32-inch insulation but in size 16 only 1/32-inch insulation is approved.

National Electric "Dilec" fibrous covering is supplied in this type of Fixture Wire, resulting in wire with smaller overall diameter and a smoother finish. In the crowded spaces where Fixture Wire is used, the smaller diameter "Dilec" Wire is considerably easier to install than the conventional braided type.

Solid Conductors

Size A.W.G.	Thickness Insulation Inches	Approx. O.D. Inches	Std. Pkg. Feet Spools†	Approx. Shpg. Wt. Lbs. Std. Pkg.
*20	1/64	.09	5-1000	35
*20	1/32	.12	1-1000	11
18	1/64	.11	5-1000	50
18	1/32	.13	1-1000	13
*16	1/64	.12	1-1000	13
16	1/32	.14	1-1000	17

Stranded Conductors

*20	1/64	.09	5-1000	35
*20	1/32	.12	1-1000	11
18	1/64	.11	5-1000	50
18	1/32	.13	1-1000	13
*16	1/64	.12	1-1000	13
16	1/32	.14	1-1000	17

*Not listed by Underwriters' Laboratories.

†Spools in carton.

TYPE TW—FOR WET LOCATIONS

600 Volts—60° C. (140° F.)

Listed by the Underwriters' Laboratories, Inc.



Type TW wire is the moisture-resistant grade of Type T wire, which the Underwriters' Laboratories have approved for wet locations in place of Lead Encased Cable. Type TW wire has all of the desirable features of Type T wire and in addition its insulation has extremely low moisture absorption rate.

Solid Conductor

Size A.W.G.	Strands	Insula- tion Thick- ness Inches	Normal Over- all Diam. Inches	Approx. Net Wt. M Ft. Per M Ft.	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Std. Pkg.
14	Solid	2/64	.130	20	500	11
12	Solid	2/64	.147	28	500	15
10	Solid	2/64	.168	41	500	22
8	Solid	3/64	.227	69	500	36

Stranded Conductors

Size A.W.G.	Strands	Insula- tion Thick- ness Inches	Normal Over- all Diam. Inches	Approx. Net Wt. M Ft. Per M Ft.	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Std. Pkg.
14	7x.0242	2/64	.140	22	500	12
12	7x.0305	2/64	.158	30	500	16
10	7x.0385	2/64	.182	44	500	23
8	7x.0486	3/64	.246	75	500	39
6	7x.0612	4/64	.314	119	500	61
4	7x.0772	4/64	.363	176	500	89
(Reel)						
2	7x.0974	4/64	.423	263	1000	326
1	19x.0664	5/64	.496	339	1000	402
1/0	19x.0745	5/64	.537	416	1000	479
2/0	19x.0837	5/64	.582	514	1000	577
3/0	19x.0940	5/64	.634	633	1000	696
4/0	19x.1055	5/64	.692	787	1000	850

Note: This same type cable is available in the circular mil (CM) sizes for open wiring only.

NATIONAL ELECTRIC NON-METALLIC SHEATHED CABLE

"CANVAS-BACK" LOOMWIRE

For Dry Locations—Normal Requirements
New Smaller Over-all Diameter



National Electric Loomwire has moisture-resistant and flame-retardant insulated conductors. The twisted paper cord wrap is specially treated for low moisture absorption, and the outer braid is also moisture-resistant and flame-retardant with a slick finish for ease of installation.

With Type R or Type T Conductors

Size of Cable	Without Ground Wire			With Ground Wire	
	Approx. Feet Per	Approximate		Approximate	
	Coil	Type R	Type T	Type R	Type T
14/2	250	85	66	89	74
12/2	250	102	83	112	98
10/2	200	145	120	165	145
8/2*	125	240	186	260	211
6/2*	125	320	288	362	325
4/2*	125	488	375	560	435
14/3	200	120	98	130	106
12/3	200	148	126	158	146
10/3	200	245	170	265	193
8/3	150	370	304	435	335
6/3	125	512	460	566	495
4/3	125	712	500	796	560

*Unless order specifies "With Heavy Grounding-Wire", cable with standard size of grounding-wire will be shipped, i.e.: No. 8 cable with No. 12 grounding-wire, No. 6 cable with No. 10 grounding-wire, and No. 4 with No. 8 grounding-wire.

Orders specifying "With Heavy Grounding-Wire" will be furnished with No. 10 grounding-wire in No. 8 cable, No. 8 grounding-wire in No. 6 cable, and No. 6 grounding-wire in No. 4 cable at the same price as cable with standard size of grounding-wire.

NE-O-PRENE LOOMWIRE

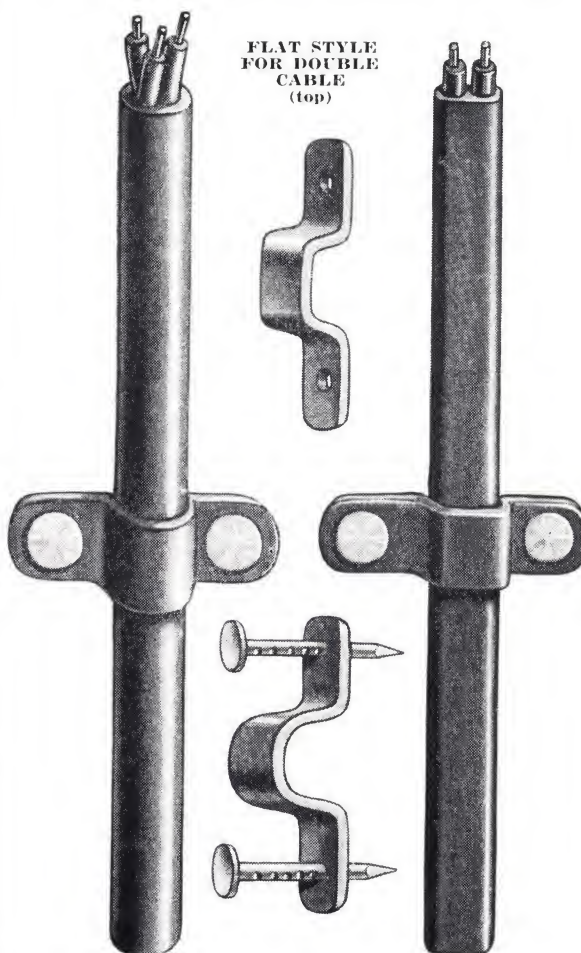


Non-metallic Sheathed Cable with Ne-o-prene insulation and tough durable Ne-o-prene jacket. For wet locations and severe usage.

Listed by Underwriters' Laboratories, Inc.

Size of Cable	Approx. Feet Per Coil		Size of Cable	Approx. Feet Per Coil	
	Coil	Shpg. Wt. Per 1000 Ft.		Coil	Shpg. Wt. Per 1000 Ft.
14/2	250	100	14/3	200	170
12/2	250	120	12/3	200	200
10/2	200	165	10/3	200	280

NON-CORROSIVE PLASTIC STRAPS



CPC-PBT
(Triple)

HOLDS NAIL
FOR DRIVING

CPC-PBD
(Double)

Fire Protection — especially Barns. Long life installation for all types, open wires, cables, cords. No Cutting Edges. Thick, pliable—edges rounded. Far safer if sway or vibration. No rusting or corroding under wet or acid conditions, as with Live-stock. Complies with REA Farmstead Wiring requirements for non-corrosive strap in all wet, acid and corrosive locations to fasten Neoprene jacketed wires. No. 12 x 1 inch Copper Slating nail recommended.

Two Styles: accommodate all sizes, types standard cable and wire—Neoprene, Romex, telephone, radio, control wires, cords, barn wiring, entrance cables, etc.

Unusual strength by test, slightly flexible.

Specifications

Cat. No.	Size Opening Inches	Length Overall	Width Inch	Thickness in In.
CPC-PBD	1/4 X 7/8	1 5/8	1/2	1/8
CPC-PBT	7/8 X 1 5/8	1 3/4	1/2	1/8

Shipping and Prices

Cat. No.	Wt. Lbs. Per 1000	Price, Per 1000		
		50,000 Lots	Std. Pkg. 10,000	Broken Pkgs. 1000 to 9999
CPC-PBD	2 1/2	\$7.50	\$8.25	\$8.65
CPC-PBT	3	8.40	9.25	9.75

NATIONAL ELECTRIC BUILDING CABLE

"DILEC" SAFECOTE RUBBER INSULATED
LEAD COVERED BUILDING-TYPE CABLE

600 VOLTS

The suffixes L, DL, and ML are added to designate single, two (duplex) and three (multiple) conductor Lead-Covered Cables respectively. One, two and three conductor cables, for example, bear the respective Type designation RL, RDL and RML. Moisture Resistant Grade Type RW rubber is not used in Lead-Covered Cables because in the Fibrous-Covered form Type RW wire can be substituted for Lead-Covered Cable for use in "wet locations."

A properly applied lead sheath is completely moisture-proof and is highly resistant to most forms of corrosion. The lead sheath on National Electric Cables is applied over the cable in a hydraulic press at a pressure of approximately 50,000 pounds per square inch and at a temperature of approximately 300° F., at which temperature the lead is in a semi-plastic state. Various features of the process insure the formation of an oxide-free sheath without flow-lines and laminations.

TYPES RL AND RHL



Single Conductor—Solid

Size A.W.G. or C.M.	Thickness— Inches		Approx. O.D. Inches	Std. Pkg. Feet (Reel)	Approx. Shpg. Wt. Lbs. Per M Ft.
	Rubber	Lead			
*†18	2/64—2/64	.19	.19	1000	92
*†16	2/64—2/64	.20	.20	1000	100
14	2/64—2/64†	.22	.22	**1000	114
12	2/64—2/64†	.24	.24	**1000	131
10	3/64—3/64	.32	.32	**1000	260
8	4/64—3/64	.38	.38	1000	320
6	4/64—4/64††	.47	.47	1000	505

Single Conductor—Stranded

Size A.W.G. or C.M.	Thickness— Inches		Approx. O.D. Inches	Std. Pkg. Feet (Reel)	Approx. Shpg. Wt. Lbs. Per M Ft.
	Rubber	Lead			
14	2/64—2/64†	.23	.23	**1000	119
12	2/64—2/64†	.25	.25	**1000	136
10	3/64—3/64	.32	.32	**1000	274
8	4/64—3/64	.38	.38	1000	337
6	4/64—4/64††	.47	.47	1000	548
4	4/64—4/64††	.52	.52	1000	655
2	4/64—4/64	.58	.58	1000	770
1	5/64—4/64	.64	.64	1000	930
1/0	5/64—4/64	.68	.68	1000	1060
2/0	5/64—4/64	.73	.73	1000	1210
3/0	5/64—4/64	.78	.78	1000	1370
4/0	5/64—4/64†	.84	.84	1000	1570
250,000	6/64—5/64	.95	.95	1000	2030
300,000	6/64—5/64	1.00	1.00	1000	2270
350,000	6/64—5/64	1.06	1.06	1000	2490
400,000	6/64—5/64	1.10	1.10	1000	2720
500,000	6/64—5/64	1.19	1.19	1000	3160
600,000	7/64—6/64	1.33	1.33	500	3980
700,000	7/64—6/64	1.40	1.40	500	4420
750,000	7/64—6/64	1.43	1.43	500	4620
800,000	7/64—6/64	1.47	1.47	500	4850
900,000	7/64—6/64	1.53	1.53	500	5265
1,000,000	7/64—6/64	1.59	1.59	500	5690
1,250,000	8/64—7/64	1.79	1.79	500	7120
1,500,000	8/64—7/64	1.91	1.91	500	8045
1,750,000	8/64—7/64	2.02	2.02	500	8910
2,000,000	8/64—7/64	2.13	2.13	500	9940

*Not listed by Underwriters' Laboratories.

†For 300-volt service.

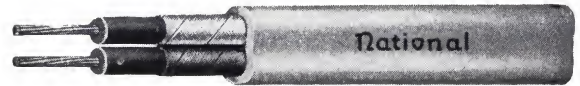
†I.P.C.E.A. and A.S.T.M. Specifications require 1/64-inch heavier lead sheath.

††I.P.C.E.A. and A.S.T.M. Specifications permit 1/64-inch lighter lead sheath.

**Standard Package for one conductor No. 14, 12, 10 is 1000 ft. lengths on non-returnable reels.

NATIONAL ELECTRIC BUILDING CABLE

"DILEC" SAFECOTE RUBBER INSULATED
LEAD COVERED BUILDING-TYPE CABLE
TYPES RDL AND RHL—600 VOLTS



Duplex cable has two wires laid parallel and encased in an overall lead sheath. Wire construction and finish is the same as single-conductor.

Twin-Conductor—Solid

Size A.W.G.	Thickness— Inches		Approx. O.D. Inches	Std. Pkg. Feet (Reel)	Approx. Shpg. Wt. Lbs. Per M Ft.
	Rubber	Lead			
*†18	2/64—2/64	.19x	.33	1000	145
*†16	2/64—2/64	.20x	.35	1000	165
14	2/64—2/64†	.22x	.38	**1000	181
12	2/64—2/64†	.24x	.41	**1000	211
10	3/64—3/64†	.32x	.55	**1000	403
8	4/64—3/64†	.38x	.66	1000	532
6	4/64—4/64	.47x	.81	1000	800

Twin-Conductor—Stranded

Size A.W.G.	Thickness— Inches		Approx. O.D. Inches	Std. Pkg. Feet (Reel)	Approx. Shpg. Wt. Lbs. Per M Ft.
	Rubber	Lead			
14	2/64—2/64†	.23x	.39	**1000	188
12	2/64—2/64††	.25x	.43	**1000	221
10	3/64—3/64†	.32x	.55	**1000	425
8	4/64—3/64†	.38x	.66	1000	563
6	4/64—4/64	.47x	.81	1000	848
4	4/64—4/64†	.52x	.91	1000	1066
2	4/64—4/64†	.58x	1.03	1000	1310
1	5/64—5/64	.67x	1.19	1000	1860
1/0	5/64—5/64†	.72x	1.27	1000	2120
2/0	5/64—5/64†	.76x	1.36	1000	2395
3/0	5/64—5/64†	.81x	1.47	1000	2730
4/0	5/64—5/64†	.87x	1.58	1000	3120

TYPES RML AND RHML—600 VOLTS



Three-Conductor—Solid

Size A.W.G. or C.M.	Thickness— Inches		Approx. O.D. Inches	Std. Pkg. Feet (Reel)	Approx. Shpg. Wt. Lbs. Per M Ft.
	Rubber	Lead			
*†18	2/64—3/64	.41	.41	1000	315
*†16	2/64—3/64	.44	.44	1000	345
14	2/64—3/64†	.44	.44	1000	370
12	2/64—3/64†	.49	.49	1000	428
10	3/64—4/64	.64	.64	1000	743
8	4/64—4/64	.77	.77	1000	978
6	4/64—5/64	.92	.92	1000	1378

Three-Conductor—Stranded

Size A.W.G.	Thickness— Inches		Approx. O.D. Inches	Std. Pkg. Feet (Reel)	Approx. Shpg. Wt. Lbs. Per M Ft.
	Rubber	Lead			
14	2/64—3/64†	.47	.47	1000	389
12	2/64—3/64†	.51	.51	1000	449
10	3/64—4/64	.64	.64	1000	780
8	4/64—4/64	.77	.77	1000	1030
6	4/64—5/64	.92	.92	1000	1456
4	4/64—5/64	1.03	1.03	1000	1806
2	4/64—5/64	1.16	1.16	1000	2240
1	5/64—6/64	1.33	1.33	1000	2980
1/0	5/64—6/64	1.42	1.42	1000	3340
2/0	5/64—6/64	1.52	1.52	1000	3830
3/0	5/64—6/64	1.63	1.63	1000	4370
4/0	5/64—7/64	1.79	1.79	1000	5430
250,000	6/64—7/64	1.96	1.96	500	6320
300,000	6/64—7/64	2.08	2.08	500	7100
350,000	6/64—7/64	2.19	2.19	500	7830
400,000	6/64—8/64	2.32	2.32	500	9130
500,000	6/64—8/64	2.50	2.50	500	10550

*Not listed by Underwriters' Laboratories.

†For 300 volt service.

†I.P.C.E.A. and A.S.T.M. Specifications require 1/64-inch heavier lead sheath.

**Standard Package for two-conductor No. 14, 12, 10, is 1000 ft. lengths on standard reels or 500 ft. lengths on non-returnable reels.

††I.P.C.E.A. and A.S.T.M. Specifications require 2/64-inch heavier lead sheath.

NATIONAL ELECTRIC CABLES
VARNISHED CAMBRIC INSULATED BRAID
COVERED CABLE



SINGLE CONDUCTOR—0 to 600 Volts

Conductor Size A.W.G. or C.M.	Thickness of Varnished Cambric in 64ths inch	Standard Cable Covering	Approx. O. D. Inches	Approx. Net Wgt. Lbs. Per 1000 Ft.
*14	3	Single Braid	.188	25
*12	3	Single Braid	.235	39
*10	3	Single Braid	.256	54
* 8	3	Single Braid	.282	74
* 6	4	Single Braid	.352	120
6	4	Single Braid	.373	130
4	4	Single Braid	.422	180
2	4	Single Braid	.482	265
1	5	Single Braid	.553	340
1/0	5	Single Braid	.594	415
2/0	5	Single Braid	.640	510
3/0	5	Single Braid	.691	620
4/0	5	Single Braid	.749	765
250,000	6	Single Braid	.828	908
300,000	6	Single Braid	.903	1090
350,000	6	Single Braid	.955	1260
400,000	6	Single Braid	1.001	1420
450,000	6	Single Braid	1.050	1598
500,000	6	Tape and Braid	1.117	1776
600,000	7	Tape and Braid	1.227	2140
700,000	7	Tape and Braid	1.311	2486
750,000	7	Tape and Braid	1.333	2655
800,000	7	Tape and Braid	1.371	2810
900,000	7	Tape and Braid	1.442	3144
1,000,000	7	Tape and Braid	1.486	3458
1,250,000	8	Tape and Braid	1.694	4361
1,500,000	8	Tape and Braid	1.806	5165
1,750,000	8	Tape and Braid	1.908	5954
2,000,000	8	Tape and Braid	2.012	6814

2001 to 3000 Volts

*10	6	Single Braid	.355	78
* 8	6	Single Braid	.381	101
* 6	6	Single Braid	.415	140
6	6	Single Braid	.436	151
4	6	Single Braid	.485	205
2	6	Single Braid	.545	296
1	6	Single Braid	.585	354
1/0	6	Single Braid	.626	432
2/0	6	Single Braid	.672	528
3/0	6	Single Braid	.723	635
4/0	6	Single Braid	.781	781
250,000	7	Single Braid	.858	942
300,000	7	Single Braid	.933	1117
350,000	7	Single Braid	.985	1281
400,000	7	Single Braid	1.031	1450
450,000	7	Single Braid	1.080	1627
500,000	7	Tape and Braid	1.147	1803
600,000	7	Tape and Braid	1.227	2140
700,000	7	Tape and Braid	1.311	2486
750,000	7	Tape and Braid	1.333	2655
800,000	7	Tape and Braid	1.371	2810
900,000	7	Tape and Braid	1.442	3144
1,000,000	7	Tape and Braid	1.486	3458
1,250,000	8	Tape and Braid	1.694	4361
1,500,000	8	Tape and Braid	1.806	5165
1,750,000	8	Tape and Braid	1.908	5954
2,000,000	8	Tape and Braid	2.012	6814

*Solid conductors. All sizes not marked with asterisk are Stranded.

NATIONAL ELECTRIC CABLES
FLEXIBLE APPARATUS CABLE
Varnished Cambric Insulated Braid Covered



SINGLE CONDUCTOR—0 to 750 Volts

Stranding No. of Strands and Strand Size in A.W.G.	Nearest Equivalent Size A.W.G. or Cir. Mils.	Insulation Thickness 64ths inch	Approx. Outside Diameter Inches	Net Wgt. Lbs. Per 1000 Ft.
19/30	17	2	.160	14
16/28	16	2	.170	16
19/28	15	2	.175	18
19/27	14	2	.175	20
19/25	12	3	.225	39
19/24	11	3	.245	41
27/24	10	3	.265	54
37/24	8	3	.285	74
61/24	6	4	.365	130
91/24	5	4	.405	155
105/24	4	4	.430	180
125/24	3	4	.465	223
150/24	2	4	.530	265
175/24	2	5	.585	305
225/24	1	5	.625	340
275/24	1/0	5	.655	443
325/24	2/0	5	.695	513
375/24	2/0	5	.735	577
450/24	3/0	5	.800	682
550/24	4/0	5	.825	813
650/24	250,000	6	.950	992
775/24	300,000	6	1.030	1168
925/24	350,000	6	1.080	1368
1100/24	450,000	6	1.160	1614
1325/24	500,000	7	1.290	1954
1600/24	650,000	7	1.380	2323
1925/24	800,000	7	1.440	2754
2300/24	900,000	7	1.550	3256
2750/24	1,000,000	7	1.690	3861
3300/24	1,250,000	7	1.820	4591

**VARNISHED CAMBRIC INSULATED LEAD
SHEATHED CABLE—SINGLE CONDUCTOR**



0 to 600 Volts

Conductor Size A.W.G. or C.M.	Thickness of Varnished Cambric in 64ths inch	Thickness of Lead Sheath in 64ths inch	Approx. O. D. Inches	Approx. Net Wgt. Lbs. Per 1000 Ft.
*14	3	3	.252	179
*12	3	3	.269	209
*10	3	3	.290	230
* 8	3	3	.316	269
* 6	4	3	.381	358
6	4	3	.405	377
4	4	3	.453	468
2	4	3	.515	720
1	5	4	.613	876
1/0	5	4	.654	973
2/0	5	4	.700	1116
3/0	5	4	.751	1290
4/0	5	4	.809	1690
250,000	6	5	.919	1926
300,000	6	5	.974	2170
350,000	6	5	1.026	2386
400,000	6	5	1.072	2609
450,000	6	5	1.121	2825
500,000	6	5	1.158	3040
600,000	7	6	1.300	3850
700,000	7	6	1.384	4298
750,000	7	6	1.406	4400
800,000	7	6	1.444	4708
900,000	7	6	1.515	5150

NATIONAL ELECTRIC CABLES SERVICE-ENTRANCE CABLE

Type "SE"—Style "U"

Approved for Circuits not Over 208 Volts to Ground

Type SE, Style U Service-Entrance Cable is substantially identical in construction with Style A Cable, except that the steel strip over the neutral conductor is omitted. Style U Cable is approved for installation in the same manner as Style A Cable and, by reason of its lighter weight, is suitable for installation in a continuous length from the pole to the service equipment as a combination Service Drop and Service Entrance Cable. The 1947 National Electrical Code permits the use of this cable as well as Style A Cable in interior wiring systems for range and domestic water-heater circuits provided the voltage to ground is not over 150 volts.



Conductors—Tinned copper conductors—No. 12 and No. 10 solid, No. 8 and larger stranded. Insulation — Performance grade rubber insulation — N.E.C. thickness for 600 volts.

Conductor Covering — Moisture-resistant and flame-retardant Safecote finished "Dilec" fibrous covering with complete identification in Safecote marking. Conductors black and red in three-conductor assemblies.

Concentric Conductor—The insulated conductor assembly is covered with a layer of black Kraft paper tape over which is applied the concentric uninsulated conductor in the form of small, tinned, copper wires.

Safecote Marking—On the exterior of the cable is the continuous Safecote marking which provides at 2-foot intervals the number and size of conductors, the type designation, and a measuring marker.

No. of Cond's. (Total)	Ins. Cond's. (No. and Size)	Unins. Neutral Cond. Inches	Nominal Over-all Diam. Inches	Std. Pkg. Feet (Coil)	Approx. Shpg. Wt. Lbs. Per M Ft.
2	1—12	12	.36	250	90
3	2—12	12	.39x .52	250	150
2	1—10	10	.38	250	110
3	2—10	10	.43x .58	250	210
2	1—8	8	.47	250	200
3	2—8	8	.51x .74	250	300
2	1—6	8	.51	250	240
2	1—6	6	.53	250	270
3	2—6	8	.55x .82	200	380
3	2—6	6	.56x .84	150	420
2	1—4	6	.58	200	350
2	1—4	4	.60	200	400
3	2—4	6	.61x .93	150	550
3	2—4	4	.62x .94	150	610
2	1—2	4	.66	150	520
2	1—2	2	.68	150	590
3	2—2	4	.68x1.06	100	800
3	2—2	2	.70x1.08	100	900

†All diameters listed conform with N.E.M.A. and I.P.C.E.A. Standards and are subject to a tolerance of plus or minus .030". Standard Service Cable fittings are designed for use with National Service Cables.

Lengths of 500 feet or more can be supplied on reels, on special order.

SERVICE ENTRANCE CABLES LAYTEX* INSULATED—NEOPRENE JACKETED



Laytex* Insulated-Neoprene Jacketed Service Entrance Cables have either one or two insulated conductors over which is laid a concentric uninsulated conductor protected by a Neoprene sheath. All conductors are stranded and coated.

The inner conductor (s) is insulated with natural rubber latex. Directly over the insulation a rubber filled tape is applied. In three conductor cables this tape is red on one insulated conductor, and black on the other. In two conductor cables the tape on the inner conductor is black. The uninsulated conductor, consisting of coated copper wires, is concentrically wrapped around the inner conductor assembly. The size and number of wires of the neutral are such that their maximum effective resistance is not greater than that of the nominal Awg. size specified. Overall a neoprene jacket is applied. All diameters listed are subject to a tolerance of .030 x .040 inch, plus or minus.

Two Conductor (one insulated, one uninsulated)

Insulated Conductor Size, Awg.	Bare Concentric Conduc- tor Size, Awg.	Laytex* Insulation Thickness Inches	Neoprene Jacket Wall Inches	Approx. O.D. Inches	Approx. Net Wt. Per M'
8	8	.025	4/64	.45	163
6	8	.025	4/64	.49	194
6	6	.025	4/64	.51	235

Three Conductor (two insulated, one uninsulated)

8	8	.025	4/64	.46x.69	266
6	8	.025	4/64	.51x.78	320
6	6	.025	4/64	.52x.69	401

Standard reel length, 500 feet.

The insulation is the same as used in Laytex* RUW Building Wire. This insulation provides the most remarkable moisture resistant qualities of any insulation on the market today. Underwriters' Laboratories, Inc., conducted severe tests to determine RUW insulation resistance in wet locations at high temperatures. Laytex* RUW was immersed in water at 50° C. (122° F.) for twenty-four consecutive weeks — nearly half a year. Instead of the resistance curve declining week by week as in R and RW insulations, it climbed steadily. After twenty-four weeks immersion, the resistance exceeded 2,400 megohms per 1000 feet. This surpasses by 1,000 megohms the requirements for the same type of insulation after only twelve hours immersion at room temperatures.

*Reg. U.S. Pat. Off.

U.S. THERMOSTAT CABLE THERMOPLASTIC TYPE—SOLID STRAND



Construction consists of two to five thermoplastic annunciator wires twisted together with a thermoplastic jacket over all.

Standard package—500' coils.

Size Awg.	No. of Cdrs.	Approx. Net Wt. Lbs./M'	O.D. In.	Size Awg.	No. of Cdrs.	Approx. Net Wt. Lbs./M'	O.D. In.
18	2	18	.14	18	4	33	.16
18	3	24	.15	18	5	38	.17

NATIONAL ELECTRIC CABLES

FULL-METALLIC FLEXLAY CABLE
(FOR UNDERGROUND USE)

TYPE RLJFJ



SINGLE CONDUCTOR

0 to 600 Volt

Size A.W.G. or C.M.	Thickness of Rubber Inches	Thickness of Lead Sheath Inches	Approx. O.D. Inches	Wt. Lbs. Per M Ft.
*14	3/64	3/64	.632	430
*12	3/64	3/64	.649	463
*10	3/64	3/64	.670	507
* 8	4/64	3/64	.727	610
* 6	4/64	3/64	.761	696
6	4/64	3/64	.783	737
4	4/64	3/64	.831	863
2	4/64	4/64	.922	1205
1	5/64	4/64	.993	1400
1/0	5/64	4/64	1.035	1543
2/0	5/64	4/64	1.079	1715
3/0	5/64	4/64	1.156	1915
4/0	5/64	5/64	1.245	2405
250,000	6/64	5/64	1.324	2715
300,000	6/64	5/64	1.419	3192
350,000	6/64	5/64	1.470	3505
400,000	6/64	5/64	1.517	3788
450,000	6/64	5/64	1.561	4066
500,000	6/64	5/64	1.603	4314

2001 to 3000 Volt

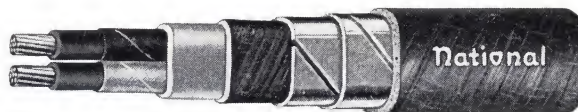
*14	7/64	3/64	.757	645
*12	7/64	3/64	.774	680
*10	7/64	3/64	.795	724
* 8	7/64	3/64	.821	780
* 6	8/64	4/64	.917	1072
6	8/64	4/64	.939	1131
4	8/64	4/64	.987	1277
2	8/64	4/64	1.047	1492
1	8/64	4/64	1.087	1617
1/0	8/64	4/64	1.153	1765
2/0	8/64	4/64	1.198	1941
3/0	8/64	5/64	1.281	2387
4/0	8/64	5/64	1.339	2668
250,000	9/64	5/64	1.457	3172
300,000	9/64	5/64	1.512	3524
350,000	9/64	5/64	1.563	3831
400,000	9/64	5/64	1.610	4100
450,000	9/64	6/64	1.686	4688
500,000	9/64	6/64	1.728	4967

*Solid conductors. All sizes not marked with asterisk are Stranded.

NATIONAL ELECTRIC CABLES

FULL-METALLIC FLEXLAY CABLE
(FOR UNDERGROUND USE)

TYPE RLJFJ



TWO CONDUCTOR (Flat)

0 to 600 Volt

Size A.W.G. or C.M.	Thickness of Rubber Inches	Thickness of Lead Sheath Inches	Approx. O.D. Inches	Wgt. Lbs. Per M Ft.
*14	3/64	3/64	.845x .657	569
*12	3/64	3/64	.879x .674	625
*10	3/64	4/64	.952x .726	835
* 8	4/64	4/64	1.066x .783	1053
* 6	4/64	4/64	1.134x .817	1193
6	4/64	4/64	1.178x .839	1276
4	4/64	5/64	1.307x .918	1718
2	4/64	5/64	1.485x1.038	2265
1	5/64	5/64	1.629x1.109	2672
1/0	5/64	6/64	1.740x1.182	3245
2/0	5/64	6/64	1.834x1.227	3605
3/0	5/64	6/64	1.934x1.278	4036
4/0	5/64	6/64	2.050x1.136	4550
250,000	6/64	7/64	2.240x1.447	5542
300,000	6/64	7/64	2.350x1.502	6104
350,000	6/64	7/64	2.452x1.553	6653
400,000	6/64	7/64	2.546x1.600	7183
450,000	6/64	7/64	2.643x1.644	7770
500,000	6/64	8/64	2.750x1.718	8743

2001 to 3000 Volt

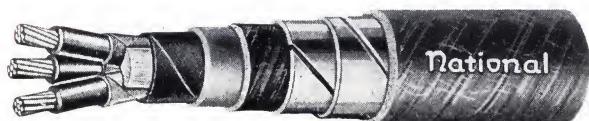
*14	7/64	4/64	1.126x .813	1072
*12	7/64	4/64	1.160x .830	1150
*10	7/64	5/64	1.233x .882	1428
* 8	7/64	5/64	1.276x .908	1550
* 6	8/64	5/64	1.475x1.033	2035
6	8/64	5/64	1.519x1.055	2144
4	8/64	5/64	1.615x1.103	2437
2	8/64	6/64	1.766x1.194	3131
1	8/64	6/64	1.846x1.234	3412
1/0	8/64	6/64	1.928x1.275	3726
2/0	8/64	6/64	2.018x1.320	4083
3/0	8/64	6/64	2.123x1.372	4532
4/0	8/64	7/64	2.270x1.462	5456
250,000	9/64	7/64	2.426x1.541	6107
300,000	9/64	7/64	2.536x1.596	6687
350,000	9/64	7/64	2.638x1.647	7235
400,000	9/64	8/64	2.764x1.725	8303
450,000	9/64	8/64	2.852x1.769	8804
500,000	9/64	8/64	2.936x1.811	9315

*Solid conductors. All sizes not marked with asterisk are Stranded.

NATIONAL ELECTRIC CABLES

FULL-METALLIC FLEXLAY CABLE
(FOR UNDERGROUND USE)

TYPE RLJFJ

THREE CONDUCTOR
0 to 600 Volt

Size A.W.G. or C.M.	Thickness of Rubber Inches	Thickness of Lead Sheath Inches	Approx. O.D. Inches	Wgt. Lbs. Per M Ft.
*14	3/64	4/64	.934	1015
*12	3/64	4/64	.971	1112
*10	3/64	4/64	1.014	1226
* 8	4/64	4/64	1.138	1542
* 6	4/64	5/64	1.243	2015
6	4/64	5/64	1.290	2127
4	4/64	5/64	1.463	2300
2	4/64	5/64	1.582	3370
1	5/64	6/64	1.767	4290
1/0	5/64	6/64	1.855	4760
2/0	5/64	6/64	1.952	5300
3/0	5/64	6/64	2.063	5980
4/0	5/64	7/64	2.219	7200
250,000	6/64	7/64	2.389	8150
300,000	6/64	7/64	2.507	9020
350,000	6/64	7/64	2.617	9860
400,000	6/64	8/64	2.749	11250
450,000	6/64	8/64	2.844	12070

2001 to 3000 Volt

*14	7/64	5/64	1.234	1838
*12	7/64	5/64	1.271	1925
*10	7/64	5/64	1.316	2082
* 8	7/64	5/64	1.372	2273
* 6	8/64	5/64	1.571	2991
6	8/64	5/64	1.619	3171
4	8/64	6/64	1.754	3950
2	8/64	6/64	1.883	4490
1	8/64	6/64	1.969	4990
1/0	8/64	6/64	2.057	5470
2/0	8/64	7/64	2.181	6470
3/0	8/64	7/64	2.297	7190
4/0	8/64	7/64	2.421	8020
250,000	9/64	7/64	2.589	8990
300,000	9/64	8/64	2.738	10460
350,000	9/64	8/64	2.848	11390
400,000	9/64	8/64	2.949	12240
450,000	9/64	8/64	3.043	13070

*Solid conductors. All sizes not marked with asterisk are Stranded.

NATIONAL ELECTRIC CABLES

NON-METALLIC FLEXLAY CABLES
(FOR UNDERGROUND USE)

TYPE RR

SINGLE CONDUCTOR
0 to 600 Volt

Type USE

Size AWG or MCM	Thickness in Inches		Nominal Overall Diameter Inches	Approx. Net Wt. Lbs. Per 1000 Ft.
	Rubber Insulation	Sheath		
Solid				
*14	3/64	3/64	.255	42
12	3/64	3/64	.272	53
10	3/64	3/64	.293	68
8	4/64	3/64	.354	103
Stranded				
8	4/64	3/64	.374	109
6	4/64	3/64	.412	149
4	4/64	3/64	.461	209
2	4/64	3/64	.523	302
1	5/64	3/64	.592	383
1/0	5/64	3/64	.632	462
2/0	5/64	3/64	.679	562
3/0	5/64	3/64	.729	687
4/0	5/64	3/64	.788	844
250MCM	6/64	4/64	.898	1044
300MCM	6/64	4/64	.953	1217
350MCM	6/64	4/64	1.004	1389
400MCM	6/64	4/64	1.052	1561
500MCM	6/64	4/64	1.137	1919

2001 to 3000 Volts

Solid				
8	7/64	3/64	.471	180
6	8/64	4/64	.567	294
Stranded				
6	8/64	4/64	.589	307
4	8/64	4/64	.637	361
2	8/64	4/64	.697	498
1	8/64	4/64	.737	579
1/0	8/64	4/64	.778	675
2/0	8/64	4/64	.824	793
3/0	8/64	5/64	.906	1019
4/0	8/64	5/64	.964	1208

4001 to 5000 Volts

Solid				
8	10/64	4/64	.595	290
6	10/64	4/64	.630	324
Stranded				
6	10/64	4/64	.651	341
4	10/64	4/64	.700	420
2	10/64	4/64	.760	560
1	10/64	4/64	.800	637
1/0	10/64	5/64	.871	806
2/0	10/64	5/64	.917	940
3/0	10/64	5/64	.969	1067
4/0	10/64	5/64	1.027	1288

*For use between building only.

NATIONAL ELECTRIC CABLES

"INDESTRUCTO" NEOPRENE-SHEATHED CABLES

Cured in Continuous Lead Mold

600-VOLT



Four Conductor — Type W and Type G†

Size A.W.G.	*No. and Size of Strands	Thick. Ins., In.	††Nom- inal Overall Diam., In.	**Cur- rent- Carrying Capacity, Amps.	†Shpg. Wt. Lbs. Per M Ft.	Std. Pkg. (Reel) Feet
8	49/25	4/64	1.02	30	845	500
8	133/29	4/64	1.02	30	855	500
6	49/23	4/64	1.15	40	1065	500
6	133/27	4/64	1.17	40	1065	500
4	49/21	4/64	1.32	55	1575	500
4	133/25	4/64	1.35	55	1590	500
2	133/23	4/64	1.55	75	2270	500
2	259/26	4/64	1.54	75	2230	500
1	133/22	5/64	1.75	85	3055	500
1	259/25	5/64	1.74	85	3015	500
1/0	133/21	5/64	1.87	100	3305	500
1/0	259/24	5/64	1.85	100	3245	500
2/0	133/20	5/64	2.02	115	4295	500
2/0	259/23	5/64	2.01	115	4235	500
3/0	259/22	5/64	2.15	130	4815	500
3/0	427/24	5/64	2.16	130	4885	500
4/0	259/21	5/64	2.34	150	5635	500
4/0	427/23	5/64	2.37	150	5760	500

*Not all sizes in the various degrees of flexibility shown are regularly carried in stock, and to permit economical manufacture, orders should cover minimum quantities of 250 feet.

††A tolerance of plus 8% or minus 5% is permitted by I.P.C.E.A. and N.E.M.A. Specifications.

**These current ratings are based on an ambient temperature of 40° C. (104° F.).

†For approximate net weights of cables normally shipped on reels, deduct 15% from the shipping weights.

†Type G is of the same construction except for the addition of grounding conductors.

Since "Indestructo" Cables for service above 600 volts are generally used where service conditions are severe and where cable failure may result in loss of life and extensive property damage, it is recommended that the various types of cables be limited to the following maximum circuit voltages:

Type W Cables	.....2500 volts
Type G Cables	.....4500 volts
Type SH Cables	.....7000 volts

Where maximum safety is desired, Type SH-D cables with grounding conductors are recommended for circuit voltages over 2000.

NATIONAL ELECTRIC OIL-RESISTING "INDESTRUCTO" CORDS

WITH NEOPRENE JACKET

Cured In Continuous Lead Mold

WITH NEOPRENE JACKET

Used in oil or grease conditions that would be harmful to a rubber jacket, National Electric Special Oil-Resisting "Indestructo" Cords are not affected. The Neoprene (synthetic rubber) material used in the jacket of this special type of cord is highly resistant to the action of oil derivatives which quickly deteriorate compounds made of natural rubber. The designations for this cord are Type SJO for "medium duty" cord and Type SO for "heavy-duty" cord.

TYPE SJO—300-VOLT Two-Conductor



Size A.W.G.	No. and Size of Strands	Thickness Insulation Inches	Nom. Overall Diam.	Current Carrying Cap., Amps.	†Std. Pkg. Feet	Approx. Shpg. Wt. Lbs. Std. Pkg.
18	41x34	2/64	.305	7	250 S	13
16	65x34	2/64	.335	10	250 S	16

Three-Conductor



18	41x34	2/64	.335	7	250 S	17
16	65x34	2/64	.355	10	250 S	21

TYPE SO—600-VOLT Two-Conductor



Size A.W.G.	No. and Size of Strands	Thickness Insulation Inches	Nom. Overall Diam.	Current Carrying Cap., Amps.	†Std. Pkg. Feet	Approx. Shpg. Wt. Lbs. Std. Pkg.
18	41x34	2/64	.400	7	250 S	21
16	65x34	2/64	.415	10	250 S	23
14	41x30	3/64	.540	15	250 C	35
12	65x30	3/64	.615	20	250 C	45
10	104x30	3/64	.650	25	250 C	53

Three-Conductor



18	41x34	2/64	.415	7	250 S	24
16	65x34	2/64	.440	10	250 S	28
14	41x30	3/64	.570	15	250 C	43
12	65x30	3/64	.645	20	250 C	55
10	104x30	3/64	.700	25	250 C	68

Four-Conductor



18	41x34	2/64	.445	7	250 S	29
16	65x34	2/64	.495	10	250 S	36
14	41x30	3/64	.615	15	250 C	55
12	65x30	3/64	.675	20	250 C	66
10	104x30	3/64	.755	25	250 C	87

†S—Spools; C—Coils.

FLEXIBLE CORDS

300 VOLTS

TYPE SJ STANDARD CORD—40% JACKET

Underwriters' Approved

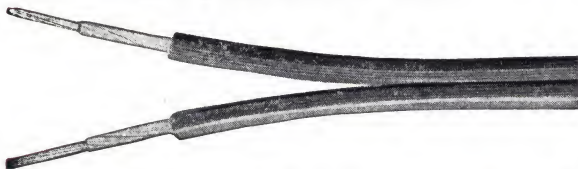


Used with office, household and similar appliances. Prescribed by the N.E.C. for use in damp places and where subject to hard usage.

Size A.W.G.	Con- struction	Current Carrying Cap. Amps.	Insu- lation Thick- ness Inches	Overall Diam- eter Inches	Net Weight Pounds per 1000 Feet	Wt. Lbs. per 1000- Foot Coll.
18	16x#30	5	2/64	.305	50	13
16	26x#30	7	2/64	.330	65	16
18	16x#30	5	2/64	.335	60	15
16	26x#30	7	2/64	.360	80	20
18	16x#30	5	2/64	.360	82	21
16	26x#30	7	2/64	.390	105	27

Color-coding of conductors, insulation colors: black and white, black, white, and green; black, white, green, and red; for 2, 3 or 4-conductor cords.

TYPE POSJ MID-RIP CORD



Parallel all-rubber cord in which the insulation of the conductors is integral with the rubber jacket. Nearly invisible slits in the jacket permit easy separation of the two insulated conductors without the use of tools for the purpose of making connections. Conductors are extra-flexible, bunch stranded soft annealed copper, covered by colored separators, and imbedded in a 40 per cent tough rubber compound.

Size A.W.G.	Construc- tion	Thick- ness, Inches	Current Carry- ing Cap., Amps.	Approx. Overall Diam. Inches	Approx. Net Wt. Lb. Per 1000 Ft.	Approx. Gross Wt. Lb. Per 1000 Ft.
18	41/#34	1/64	5	.235x.130	26	34
18	41/#34	2/64	5	.290x.160	36	43
16	65/#34	2/64	7	.315x.185	43	52

TYPE C TWISTED PAIR FLEXIBLE LAMP CORD



For pendant use in dry places where not subject to hard usage.

Made in either Rayon, Glos or cotton finish. Flexibility is assured by the use of a number of very fine, soft, copper wires in each of the two conductors. Each strand is covered with a close wrap of strong cotton as a protection against any chemical action, and is then insulated with a seamless resilient good grade rubber compound.

Size A.W.G.	Con- struction	Insulation Thickness, Inches	Approx. Overall Diam. Inches	Approx. Net Wt. Lb. Per 1000 Ft.	Approx. Gross Wt. Lb. Per 1000 Ft.
18	16/#30	2/64	.290	26	30
16	26/#30	2/64	.316	34	39
14	41/#30	3/64	.408	57	60
12	65/#30	3/64	.446	77	80

FLEXIBLE CORDS

STYLE HPD HEATER CORD



For use in connection with all types of portable heating equipment and appliances. The two copper conductors consist of a number of fine, soft copper wires to give flexibility, each conductor being covered with a close wrap of strong cotton to protect it from any chemical action of the rubber insulation. The individual conductors are insulated with seamless, code rubber compound. Each conductor is then served with asbestos. The two conductors are then twisted, and strong cotton of either blue gray or black color is braided over them.

Size A.W.G.	Con- struction	Insulation Thickness Inches	Approx. Overall Diam. Inches	Wt. Lb. Per 1000 Ft.	Stand. Put-up Coils, Ft.
18	41x.0063	1/4	.270	31	250
16	65x.0063	1/4	.305	42	250
14	104x.0063	1/4	.350	57	250

NATIONAL ELECTRIC STOVE WIRE

TYPE AA—ALL-ASBESTOS

Listed by Underwriters' Laboratories, Inc.



Solid copper conductor. Felted asbestos. Asbestos braid. (White flame-and-heat resisting impregnation.)

For use in wiring stoves, ranges, hot-plates and other heating appliances. Suitable for operating temperatures as high as 200° C. (392° F.) in definitely dry places.

Solid Conductor—300 Volts
NEMA Standard No. 39-54 Table 14

Size AWG	No. and Size of Strands	Thick- ness Felted Asbestos	Thick- ness Asbestos Braid	*Nominal Over-all Diameter	Approx. Net Wt. Pounds M Feet	Std. Pkg.
18	Solid	.031	.045	.195	21	500C
16	Solid	.031	.045	.205	25	500C
14	Solid	.031	.045	.220	36	500C
12	Solid	.031	.045	.235	46	500C
10	Solid	.031	.045	.255	60	500C
8	Solid	.031	.045	.280	85	500C
6	Solid	.031	.045	.335	118	500R
4	Solid	.031	.045	.375	170	500R

Stranded Conductor—300 Volts
NEMA Standard No. 39-54 Table 45

Size	Strands	Thick- ness Felted Asbestos	Thick- ness Asbestos Braid	*Nominal Over-all Diameter	Approx. Net Wt. Pounds M Feet	Std. Pkg.
18	7x.0151	.031	.045	.200	21	500C
16	7x.0193	.031	.045	.210	25	500C
14	7x.0242	.031	.045	.225	38	500C
12	7x.0305	.031	.045	.245	48	500C
10	7x.0385	.031	.045	.270	62	500C
8	7x.0486	.031	.045	.300	89	500C
6	7x.0612	.040	.045	.355	123	500R
4	7x.0772	.040	.045	.405	171	500R

*A tolerance of plus or minus 5 per cent is necessary on account of variations in process of manufacture.

Note: Can be furnished with black flame-heat-and-moisture resistant impregnation if moisture is likely to be encountered after the wire is placed in the device. Cable of this construction can be operated up to 125° C. (257° F.).

RUBBER COVERED TELEPHONE WIRES

SINGLE CONDUCTOR OR TWISTED PAIR



Size B. & S.	Diam. Over Rubber, Inches	Size B. & S.	Diam. Over Rubber, Inches
14	$\frac{1}{4}$	18	$\frac{7}{8}$
14	$\frac{5}{32}$	19	$\frac{6}{8}$
16	$\frac{3}{32}$	19	$\frac{3}{32}$
16	$\frac{9}{64}$	20	$\frac{3}{32}$
16	$\frac{1}{8}$	22	$\frac{3}{32}$
18	$\frac{1}{8}$	----	----

NATIONAL ELECTRIC TELEPHONE WIRE

FOR INSIDE USE—Glazed Cotton Braid



Size	Diam. Over	Stand. Coil	2-Conductor		3-Conductor	
			Overall Diam.	Shpg. Wt. Lbs.	Overall Diam.	Shpg. Wt. Lbs.
22	.056	500	.172	5	.185	8
19	.094	500	.248	11	.267	17

FOR OUTSIDE USE—Safecote



Size	Diam. Over	Stand. Coil	2-Conductor		3-Conductor	
			Overall Diam.	Shpg. Wt. Lbs.	Overall Diam.	Shpg. Wt. Lbs.
19	.094	500	.260	11	.280	17
18	.109	500	.294	16	.316	24
16	.125	500	.326	21	.350	32
14	.156	1000	.400	60	-----	----

TWISTED PAIR INTERIOR WIRE



Soft tinned copper conductors, rubber insulated, braided and twisted. Standard colors are olive green or oak tan. May also be furnished in single or three conductor.

Size	Diam. Over Rubber, Inches	Approx. Wt. Lbs. Per 1000 Ft.	Standard Length On Coil
22	.056	24	500'
19	.094	48	500'
18	.109	59	500'

FLAME PROOF JUMPER WIRE



Soft tinned copper conductors, rubber insulated, braided and twisted. One conductor white cotton, one conductor red cotton, saturated with flame proof compound.

Size	Diam. Over Rubber, Inches	Approx. Wt. Lbs. Per 1000 Ft.	Standard Length On Coil
22	.056	21	500'
20	.085	25	500'
19	.094	42	500'

COPPER CLAD TELEPHONE WIRE



Copper clad rubber insulated, twisted pair drop wire has very largely replaced the use of No. 14 copper drop wire, having approximately the same breaking strength as the latter, and having ample conductivity for telephone requirements. It costs less, is smaller and weighs less than copper wire, and its life is longer.

Size B&S	Diam. Over Rubber, In.	Wt. Lb. 1000 Ft.
17	$\frac{7}{8}$	40

Raised Thread Tracer

Single conductors are one-half the price of twisted pair. Triple conductors are one and one-half times the price of twisted pair. Four conductors are twice the price of twisted pair. No deductions will be made for lighter insulation.

THERMOSTAT CONTROL CABLE

BRAIDED—ARMORED



Thermostat cable is made of annunciator wires color coded, cabled and has an outer braid of brown cotton, waxed finish. Unless otherwise specified the three conductor is made with one each red, white and blue wires; four conductor red, white, blue and red and white; five conductor red, white, blue, red and white and blue and white. The armored is of the same construction as the braided, but has a protective covering of soft steel.

Both are regularly furnished in coils of approximately 250, 500 or 1000 feet. Braided No. 18-3 conductor may be had on 500 foot spools without extra charge.

Approximate Weight in Pounds Per 1000 Feet					
Size	Braided	Armored	Size	Braided	Armored
16-2	22	50	18-2	18	36
16-3	31.5	61	18-3	23	44
16-4	41	72	18-4	31	54
16-5	52	89	18-5	38	67
Four conductor composed of 2 No.					
18 and 2 No. 16.....				38	70

ANNUNCIATOR WIRE



Annunciator wire is copper wire insulated with two wraps of cotton wound in reverse direction, saturated in paraffine and highly polished. Put up on 7 and 1 pound spools and in 1 and 1/2 pound coils.

Size B&S	Single Conductor		Twisted Pair..		Duplex	
	Feet Per Lb.	Lbs. per 1000 Ft.	Feet Per Lb.	Lbs. per 1000 Ft.	Feet Per Lb.	Lbs. per 1000 Ft.
12	44	22.7	21	47.6	----	----
14	68	14.7	33	30.3	----	----
16	104	9.6	51	19.6	40	25
18	158	6.4	77	13	55	18.2
20	225	4.5	108	8.25	75	13.3
Size B&S	Advance Over Base		Size B&S	Advance Over Base		
16	\$0.05		20	\$0.07		
18	.06					

Extra Advances

Tinned Wire	\$0.02	1 Lb. Coils.....	\$0.01
Twisted Pairs .....	.01	1 Lb. Spools.....	.02
1/2 lb. Coils.....	.02		

U.S. WEATHERPROOF WIRES AND CABLES

BRAID COVERED



Type U.R.C. Weatherproof has solid or stranded conductors of soft, medium hard or hard drawn copper, covered with two or three closely woven braids thoroughly saturated with a black weather-proof compound and finished with a high melting point blown asphalt and a mica finish.

This wire meets U.R.C. Specifications. Weather-proof wire is also available with hard drawn aluminum conductors.

Solid Weatherproof Wire

Size, A.W.G.	Triple Braid		Double Braid	
	Net Wt. lbs. per 1000 ft.	Standard Package Coil	Net Wt. lbs. per 1000 ft.	Standard Package Coil
18	16	2000 ft.	12	2000 ft.
16	20	2000 ft.	16	2000 ft.
14	24	*2000 ft.	20	2000 ft.
12	35	*2000 ft.	30	2000 ft.
10	52	*2000 ft.	46	2000 ft.
8	75	*2000 ft.	67	2000 ft.
6	113	*1500 ft.	101	1500 ft.
4	166	*1000 ft.	153	1000 ft.
3	203	1000 ft.	185	1000 ft.
2	260	*1000 ft.	239	1000 ft.
1	316	800 ft.	294	800 ft.
1/0	407	2640 — 36"	377	2640 — 36"

Stranded Weatherproof Wire

		Coil		Coil	
		Feet	Reel	Feet	Reel
8	78	2000 ft.	68	2000 ft.	
6	115	1000 ft.	103	1000 ft.	
4	170	1000 ft.	155	1000 ft.	
3	206	1000 ft.	190	1000 ft.	
2	272	1000 ft.	246	1000 ft.	
1	328	1000 — 30"	303	1000 — 30"	
1/0	427	2500 — 42"	388	2500 — 36"	
2/0	527	2000 — 42"	482	2000 — 36"	
3/0	653	2500 — 48"	604	2500 — 42"	
4/0	793	2000 — 48"	745	2000 — 42"	
250,000 c.m.	985	2000 — 48"	907	2000 — 48"	
300,000 c.m.	1174	2000 — 48"	1083	2000 — 48"	
350,000 c.m.	1345	1500 — 48"	1248	1500 — 48"	
400,000 c.m.	1553	1500 — 48"	1436	1500 — 48"	
450,000 c.m.	1724	1000 — 48"	1601	1000 — 48"	
500,000 c.m.	1894	1000 — 48"	1765	1000 — 48"	
600,000 c.m.	2235	1000 — 48"	2093	1000 — 48"	
700,000 c.m.	2650	1000 — 54"	2471	1000 — 54"	
750,000 c.m.	2822	1000 — 54"	2635	1000 — 54"	
800,000 c.m.	2992	1000 — 54"	2799	1000 — 54"	
900,000 c.m.	3332	1000 — 54"	3127	1000 — 54"	
1,000,000 c.m.	3674	1000 — 60"	3456	1000 — 60"	

*Also packed in 500 ft. coils.

U.S. WEATHERPROOF WIRES AND CABLES

NEOPRENE COVERED

Nominal Thickness of Covering

Size of Conductor Awg. or CM	Double Braid Equivalent 64th Inch	Triple Braid Equivalent 64th Inch
Nos. 12 to 11	2	3
Nos. 10 to 3	3	4
Nos. 2 to 4/0	4	5
250,000 to 500,000	5	6
525,000 to 950,000	7	8
Over 1,000,000	8	10

Weights of Copper Conductors, Covering and Completed Cable

(Pounds Per 1,000 Feet)

Conductor Size Awg. or CM	Bare Conductors	Covering		Complete Cable	
		Double Braid Equiva- lents	Triple Braid Equiva- lents	Double Braid Equiva- lents	Triple Braid Equiva- lents
14 Solid	12.4	6.8	11.8	19.2	24.2
12 Solid	19.8	8.0	13.6	27.8	33.4
10 Solid	31.4	15.6	23.3	47.0	54.7
8 Solid	50.0	18.7	27.1	68.7	77.1
8 Stranded	50.5	22.8	31.8	73.3	82.3
6 Solid	79.4	22.2	31.8	101.6	111.2
6 Stranded	80.0	28.3	38.6	108.3	118.6
4 Solid	126.3	26.7	37.7	153.0	164.0
4 Stranded	127.5	35.5	47.5	163.0	175.0
3 Solid	159.3	29.4	41.2	188.7	200.5
3 Stranded	160.8	39.9	52.8	200.7	213.6
2 Solid	200.9	45.3	59.3	246.2	260.2
2 Stranded	203.0	59.2	74.4	262.2	277.4
1 Stranded	257.0	63.3	79.9	320.3	336.9
1/0 Stranded	323.1	71.3	89.3	394.4	412.4
2/0 Stranded	408.9	80.2	99.9	489.1	508.8
3/0 Stranded	515.5	90.3	111.8	605.8	627.3
4/0 Stranded	650.7	102.7	126.2	753.4	776.9
250,000	766.2	130.3	135.8	896.6	902.0
300,000	918.8	143.3	172.4	1,062.1	1,091.2
350,000	1,077.4	155.4	186.2	1,230.8	1,261.6
400,000	1,229.3	166.8	199.4	1,396.1	1,428.7
450,000	1,384.4	177.5	211.7	1,558.9	1,596.1
500,000	1,532.9	187.5	223.2	1,720.4	1,756.1
550,000	1,716.4	263.4	291.6	1,979.8	2,008.0
600,000	1,842.6	283.3	324.1	2,125.9	2,166.7
650,000	2,000.7	286.9	327.7	2,287.6	2,328.4
700,000	2,154.9	297.3	340.6	2,452.2	2,495.5
750,000	2,309.9	309.2	349.6	2,619.1	2,659.5
800,000	2,462.0	320.4	364.8	2,782.4	2,826.8
900,000	2,772.6	340.7	387.3	3,113.3	3,159.9
1,000,000	3,089.6	407.7	509.9	3,497.3	3,599.5

Weights of Aluminum Conductors, Covering and Completed Cable

(Pounds Per 1,000 Feet)

Conductor Size Awg. or CM	Copper Equivalent Size	Con- duc- tors	Covering		Complete Cable	
			Double Braid	Triple Braid	Double Braid	Triple Braid
12 Solid	14	6.0	8.0	13.6	14.0	19.6
10 Solid	12	9.5	15.9	23.3	25.4	32.8
8 Solid	10	15.2	18.7	27.1	33.9	42.3
6 Solid	8	24.1	22.2	31.8	46.3	55.9
6 Stranded	8	24.3	28.3	38.6	52.6	62.9
4 Solid	6	38.4	26.7	37.7	65.1	76.1
4 Stranded	6	38.8	47.5	60.6	86.3	99.4
2 Solid	4	61.0	45.3	59.3	106.3	120.3
2 Stranded	4	61.0	59.2	74.4	120.2	135.4
1 Stranded	3	78.6	63.3	79.9	141.9	158.5
1/0 Stranded	2	99.2	71.2	89.3	170.4	188.5
2/0 Stranded	1	125.0	80.3	99.9	205.3	224.9
3/0 Stranded	1/0	155.7	90.3	111.8	246.0	267.5
4/0 Stranded	2/0	199.0	102.7	126.2	301.7	325.2
267,325	3/0	253.0	135.2	163.0	388.2	416.0
336,743	4/0	318.7	152.5	182.9	471.2	501.6
397,500	250,000	376.6	166.4	198.9	543.0	575.5
477,000	300,000	451.9	183.2	218.2	635.1	670.1
556,500	350,000	527.7	265.8	304.2	793.5	831.1
636,000	400,000	601.9	284.5	325.6	886.4	927.5
715,000	450,000	678.4	302.7	345.2	981.1	1,023.6
795,000	500,000	753.0	319.0	363.4	1,072.0	1,116.4
874,500	550,000	828.6	334.7	380.8	1,163.3	1,209.4
954,000	600,000	903.6	350.6	398.4	1,254.2	1,302.0
1,033,500	650,000	978.7	406.4	510.1	1,385.1	1,488.8
1,133,000	700,000	1,053.4	416.0	528.6	1,469.4	1,582.0
1,193,033	750,000	1,129.2	437.1	547.0	1,566.3	1,676.2
1,272,000	800,000	1,205.4	450.6	563.4	1,656.0	1,768.8
1,431,000	900,000	1,356.6	480.4	598.1	1,837.0	1,954.7
1,590,000	1,000,000	1,528.1	482.7	629.5	2,010.8	2,157.6

WEATHERPROOF ANNUNCIATOR WIRE

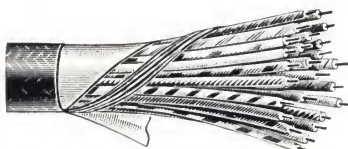


No. 18 solid, single braid. Insulated with one cotton braid thoroughly saturated with weatherproof compound. Put up in 5-pound coils. Weight 8 pounds per 1000 feet.

Prices upon application.

TELEPHONE CABLES

TYPE B BRAIDED CABLES



For all indoor work provided that runs do not occur in places where excessive dampness or mechanical injury is likely to be encountered.

All wires are served with one winding of silk and one of cotton. The wires are cabled up and impregnated with moisture resisting compound.

Cat. No.	No. Cond.	Conductors	O.D. In.	Price per 100 Ft.
B-4	4	4 No. 18	$\frac{1}{8}$	\$5.60
B-8	8	3 No. 18, 5 No. 22	$\frac{1}{4}$	11.50
B-12	12	3 No. 18, 9 No. 22	$\frac{3}{8}$	14.50
B-16	16	4 No. 18, 12 No. 22	$\frac{1}{2}$	18.00
B-21	21	4 No. 16, 17 No. 22	$\frac{3}{8}$	22.00
BP-26	26	2 prs. No. 16, 11 prs. No. 22	$\frac{1}{2}$	26.50
BP-38	38	2 prs. No. 16, 17 prs. No. 22	$\frac{3}{4}$	36.00
BP-46	46	2 prs. No. 16, 21 prs. No. 22	$\frac{1}{2}$	42.00

TYPE L LEAD ENCASED CABLES

Type "L" cables in all sizes are constructed exactly like the "B" type except that instead of the braided outer casing a lead sheath of suitable thickness is used. Intended for use out of doors, underground and wherever dampness or moisture exists.

Cat. No.	No. Cond.	Conductors	O.D. In.	Price per 100 Ft.
L-4	4	4 No. 18	$\frac{5}{16}$	\$21.50
L-8	8	3 No. 18, 5 No. 22	$\frac{3}{8}$	32.50
L-12	12	3 No. 18, 9 No. 22	$\frac{1}{2}$	38.50
L-16	16	4 No. 18, 12 No. 22	$\frac{3}{4}$	42.50
L-21	21	4 No. 16, 17 No. 22	$\frac{1}{2}$	48.00
LP-26	26	2 prs. No. 16, 11 prs. No. 22	$\frac{1}{2}$	52.50
LP-38	38	2 prs. No. 16, 17 prs. No. 22	$\frac{3}{4}$	78.50
LP-46	46	2 prs. No. 16, 21 prs. No. 22	$\frac{1}{2}$	87.50

BARE COPPER WIRE AND CABLE

Hard drawn, medium hard drawn, or soft drawn, either plain or coated, copper wire or strand, is furnished in practically any required size. It is made in accordance with A.S.T.M. specifications.

SOLID

Size, A.W.G.	Diameter Inches	Cir. Mil. Area	Net Wt. lbs. per 1000 ft.	Standard Pkg. (Approximate) Coil
22	.0253	642	1.9	10 lb.
20	.0319	1,021	3.1	10 lb.
18	.0403	1,624	4.9	10 lb.
16	.0508	2,583	7.8	Reel 250 lb.
14	.0641	4,107	12.4	250 lb.
12	.0808	6,530	20	250 lb.
10	.1019	10,383	32	250 lb.
8	.1285	16,510	50	Coil or Reel 250 lb.
6	.1620	26,251	79	250 lb.
4	.2043	41,471	126	250 lb.
3	.2294	52,635	159	250 lb.
2	.2576	66,371	201	250 lb.
1	.2893	83,693	253	250 lb.
1/0	.3249	105,535	310	250 lb.

24" reels used for reel shipments.

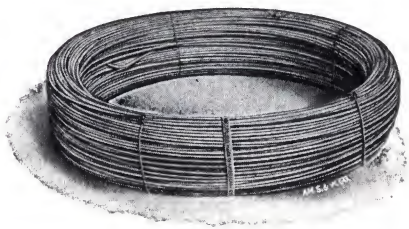
STRANDED

Size, A.W.G.	Stranding	Diameter Inches	Net Wt. lbs. per 1000 ft.	Standard Package Feet Reel
8	7/.0485	.146	51	5000 — 24"
6	7/.0612	.184	81	4000 — 24"
4	7/.0772	.232	128	4000 — 30"
3	7/.0867	.260	161	4000 — 36"
2	7/.0974	.292	204	3500 — 36"
1	7/.1093	.328	256	3000 — 36"
1/0	7/.1228	.374	324	3000 — 42"
2/0	7/.1378	.413	410	2500 — 42"
3/0	7/.1550	.465	519	2000 — 42"
4/0	7/.1740	.522	654	2000 — 42"
250,000 c.m.	19/.1147	.574	772	1000 — 48"
300,000 c.m.	19/.1257	.629	927	1000 — 48"
350,000 c.m.	19/.1357	.679	1080	1000 — 48"
400,000 c.m.	19/.1451	.726	1235	1000 — 48"
500,000 c.m.	37/.1162	.813	1543	1000 — 48"
600,000 c.m.	37/.1273	.891	1851	500 — 48"
750,000 c.m.	61/.1109	.998	2316	500 — 48"
1,000,000 c.m.	61/.1280	1.152	3086	500 — 48"
1,500,000 c.m.	61/.1568	1.411	4630	500 — 48"
2,000,000 c.m.	91/.1485	1.634	6193	500 — 48"

IN THIS CATALOG
WE COULD NOT SHOW
EVERYTHING WE DISTRIBUTE.

ADVISE US OF YOUR
ADDITIONAL REQUIREMENTS.

AMERTEL TELEPHONE AND TELEGRAPH WIRE



AmerTel Extra Best Best (E.B.B.) stands highest in conductivity. Weight per mile ohm, 4700 to 5000 pounds. Used by telegraph companies.

AmerTel Best Best (B.B.) is superior to the E.B.B. in tensile strength and equal in galvanizing, but of lower electrical value. Weight per mile ohm, 5600 to 6000 pounds. Used largely by telephone companies.

AmerTel Steel, designed for short-line telephone service, where a measure of conductivity can be exchanged for high tensile strength. Weight per mile ohm, 6500 to 7000 pounds.

Size B.W.G.	Diam. In.	—Appr. Wt. Lbs.—		Approx. Breaking Strain in Lbs.		
		Per 1000 Ft.	Per Mile	Ex. B.B.	B.B.	Steel
4	.238	153	811	2028	2270	2433
6	.203	112	590	1475	1650	1770
8	.165	74	390	975	1090	1170
9	.148	60	314	785	880	942
10	.134	49	258	645	720	774
11	.120	39	206	515	575	618
12	.109	32	170	425	475	510
14	.083	19	99	247	275	297

AMERSTRAND STEEL STRAND



Galvanized or extra galvanized. Seven steel wires twisted into a single strand.

Diam. In.	Approx. Wt. Lbs. Per 1000 Ft.	Approx. Strength in Lbs.	Diam. In.	Approx. Wt. Lbs. Per 1000 Ft.	Approx. Strength in Lbs.
5/8	813	11600	3/4	72.9	1150
1/2	517	7400	5/8	205	3200
7/8	399	5700	1/4	121	1900
3/8	273	4250	---	---	---

Diam. In.	Siemens-Martin Ex. Galvanized Tensile Strength, Lbs.	High Strength Ex. Galvanized Tensile Strength, Lbs.	Extra High Strength Ex. Galvanized Tensile Strength, Lbs.
5/8	19100	29600	42400
3/4	15700	24500	35000
1/2	12100	18800	26900
7/8	9350	14500	20800
3/8	6950	10800	15400
5/8	5350	8000	11200
3/4	4250	6400	8950
1/2	3150	4750	6650
7/8	1900	2850	3990
3/8	910	1330	1830

AMERTEL TELEPHONE AND TELEGRAPH WIRE

AMERTEL-85 GRADE TELEPHONE AND TELEGRAPH WIRE

For years, communication engineers have made insistent demands for a galvanized telephone and telegraph wire combining greater tensile strength and lower resistance.

AmerTel-85 is the outstanding answer to these demands—the culmination of intensive research. It is the telephone and telegraph wire which offers:

1—A minimum tensile strength approximately 90 percent greater than that of "E.B.B." grade—65 percent greater than that of "E.B." grade—55 percent greater than that of "Steel" grade.

2—An effective resistance of voice-frequencies, with currents of normal magnitude for these frequencies, substantially equal to that of the best grade of iron wire.

3—Superior galvanizing which assures controlled bonding of zinc with the metal base.

AmerTel-85 represents an outstanding contribution to increased economy and efficiency in building and maintaining overhead communication lines.

Size B.W.G.	Diam. In.	Approx. Wt. Lbs. Per Mile	Coll Lgth. Mile	Min. Break- ing Load (Lbs.)	Max. Resis- tance Ohms Per Mile
9	.148	314	1/2	1462	18.47
10	.134	258	1/2	1199	22.48
12	.109	170	1/2	793	34.12
14	.083	99	1/2	460	58.59

Furnished in continuous lengths without splices or joints.

Note: Use the designation AmerTel-85 Grade in specifying this material. Galvanized steel compression-type sleeves are recommended for splicing AmerTel-85 Telephone and Telegraph Wire.

AMERTEL-135 GRADE TELEPHONE AND TELEGRAPH WIRE

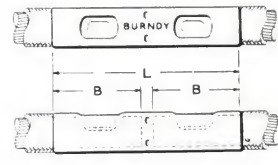
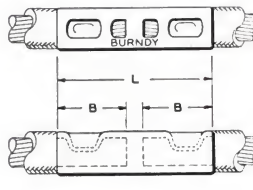
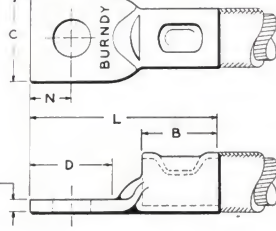
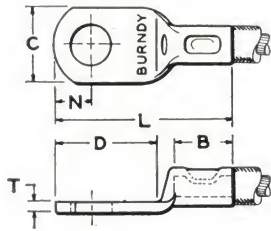
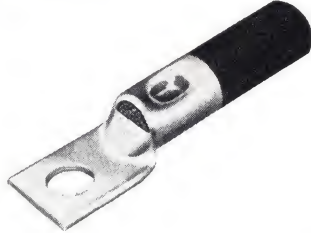
AmerTel-135 offers the ultimate in the combination of tensile strength and transmission qualities. Here is a conductor which combines tensile strength of approximately 2½ times that of standard "B.B." Wire with telephone transmission qualities superior to the older grade.

The combination of extra-strength and superior conductivity in a wire with a heavy galvanized coating makes AmerTel-135 grade the ideal conductor for rural and short toll lines. Spans of lengths heretofore out of consideration become not only possible but practical—350 feet in heavy loading districts—450 feet in medium loading districts—500 feet in light loading districts. The extra strength means a greater safety factor for withstanding heavier ice and wind loads with resultant savings in maintenance costs.

Size B.W.G.	Diam. In.	—Appr. Wt. Lbs.—		Max. Lgth. Coll Feet	Min. Break- ing Load (Lbs.)
		Per Mile	Per Coll		
12	0.109	170	150	4970	1213

Note: Use the designation AmerTel-135 grade in specifying this material. Galvanized steel compression-type sleeves are recommended for splicing AmerTel-135 grade line wire.

BURNDY HYLUGS and HYLINKS — (INDENT TYPES)
INSTALLED WITH BURNDY HYTOOLS AND HYPRESSES (See Below)
 Made for all sizes of wire and cable. Commonly used sizes listed below.



Type YAV

Type YA-L

Type YSV

Type YS-L

Conductor Size	HYLUGS											HYLINKS					
	For Use on Screw Size	Cat. No.	Carton No.†	Carton Qty.	Std. Pkg. Qty.	Dimensions in Inches						Cat. No.	Carton No.†	Carton Qty.	Std. Pkg. Qty.	Dimen. in In.	
						B	C	D	L App.	N	T App.					B	L App.
20-12 Sol.	4 or 6	YAV14-T5	145	200	2000	1/4	5/16	7/16	3/4	5/32	3/64	YSV14	S140	200	2000	1/4	5/8
20-14 Str.	8 or 10	YAV14	140	200	2000	1/4	5/16	7/16	3/4	5/32	3/64						
	1/4	YAV14-T2	142	200	2000	1/4	13/32	19/32	1 1/2	1/4	1/32						
12-10 Str.	8 or 10	YAV10	100	100	1000	5/16	3/8	13/32	1 1/2	5/16	1/16	YSV10	S100	200	2000	5/16	3/4
10-9 Sol.	1/4	YAV10-T3	103	100	1000	5/16	13/32	19/32	1 1/2	1/4	1/16						
8 Str.	8 or 10	YAV8C-L	80	100	1000	7/16	13/32	1 1/2	1 1/2	7/32	1/16	YS8C-L	S80	100	1000	7/16	1 1/8
	1/4	YAV8C-L1	81	100	1000	7/16	13/32	1 1/2	1 1/2	1/4	1/16						
6 Str.	1/4	YA6C-L	60	50	500	13/16	13/32	1 1/2	1 1/2	1 1/4	3/32	YS6C-L	S60	50	500	13/16	1 3/4
	8 or 10	YA6C-L1	61	50	500	13/16	13/32	1 1/2	1 1/2	1 1/4	3/32						
4 Str.	1/4	YA4C-L	40	50	500	13/16	1 1/2	1 1/2	1 1/2	1 1/4	3/32	YS4C-L	S40	50	500	13/16	1 3/4
	8 or 10	YA4C-L1	41	50	500	13/16	1 1/2	1 1/2	1 1/2	1 1/4	3/32						
2 Str.	5/16	YA2C-L	20	25	250	7/8	9/16	3/4	1 27/32	3/8	7/64	YS2C-L	S20	25	250	7/8	1 7/8
	1/4	YA2C-L2	22	25	250	7/8	9/16	3/4	1 27/32	3/8	7/64						
1/0 Str.	5/16	YA25-L	250	15	150	7/8	3/4	3/4	1 1/8	3/8	1/8	YS25-L	S250	15	150	7/8	1 7/8
	3/8	YA25-L4	254	15	150	7/8	3/4	3/4	1 1/8	3/8	1/8						
2/0 Str.	3/8	YA26-L	260	10	100	1 1/16	13/16	1 1/2	2 3/8	7/16	1/8	YS26-L	S230	10	100	1 1/16	2
3/0 Str.	3/8	YA27-L4	274	10	100	1	13/16	1 1/2	2 3/8	7/16	1/8	YS27-L	S270	10	100	1	2 1/4
4/0 Str.	3/8	YA28-L4	284	10	100	1	1	1	2 11/16	1 1/2	9/64	YS28-L	S280	8	80	1	2 1/4

†Order by Carton Number. For larger sizes of Hylugs and Hylinks, information on request.



HYTOOL, Catalog No. Y14MV

A popular hand tool for installing Hydent connectors on conductor sizes, No. 22 to 8.



HYTOOL, Catalog No. MY29

A self-contained hand tool for installing Hydent connectors on conductor sizes No. 8 to 250 Mcm. No removable dies are required.



HYPRESS, Catalog No. Y34A

A fully insulated, hand-operated hydraulic tool for installing Hydent connectors on conductors No. 6 to 500 Mcm, with proper dies.

HYLUG CONNECTOR KIT No. 10



Contains 325 assorted Hylugs and Hylinks for conductors No. 20 through No. 10, packed in useful plastic jars, and one Hytool Y14MV for installing all of these sizes.

BURNDY ELECTRICAL CONNECTORS

QIKLUG—TYPE QA-B



A heavy duty terminal for rapid termination of wires and cables. The Qiklug accommodates a range of cable sizes, and is supplied with one, two or more holes in the terminal tongue. Also furnished with tongues and drilling to order.

Cat. No.	Cable Size	No. Holes in Contact Pad	Shpg. Wt. Lbs. Per 100
QA8C-B	14 Sol. to 8 Str.	1	8
QA8C-2B	14 Sol. to 8 Str.	2	10
QA4C-B	6 Sol. to 4 Str.	1	9
QA4C-2B	6 Sol. to 4 Str.	2	10
QA1C-B	4 Str. to 1 Str.	1	13
QA1C-2B	4 Str. to 1 Str.	2	16
QA26-B	1/0 Str. to 2/0 Str.	1	23
QA26-2B	1/0 Str. to 2/0 Str.	2	28
QA28-B	3/0 Str. to 4/0 Str.	1	28
QA28-2B	3/0 Str. to 4/0 Str.	2	34
QA31-B	250 MCM to 350 MCM	1	53
QA31-2B	250 MCM to 350 MCM	2	60
QA34-B	400 MCM to 500 MCM	1	82
QA34-2B	400 MCM to 500 MCM	2	84
QA40-B	600 MCM to 800 MCM	1	130
QA40-2B	600 MCM to 800 MCM	2	140
QA44-B	850 MCM to 1000 MCM	1	170
QA44-2B	850 MCM to 1000 MCM	2	170

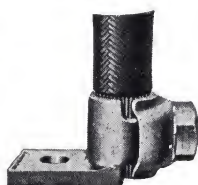
QIKLUG VARIATIONS



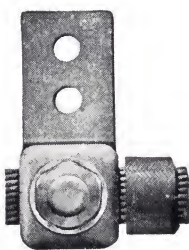
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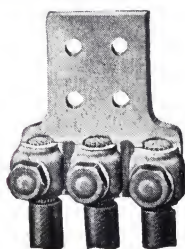
Type QA-B-45



Type QA-B-90



Type QB



Q3A

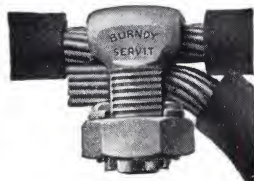


Q2A

Shown above are several of the many variations of the Burndy Qiklug — terminals designed for multiple cable accommodation, unusual angles, long cable drops and other requirements. When ordering specify tongue dimensions and drilling.

BURNDY ELECTRICAL CONNECTORS

SERVIT—TYPE KS

Type KS
For Copper Cable or WireType KSO
With Nut Retainer

Type KS designed for making service connections quickly and surely. Units for accommodating wire sizes up to and including 500 Mcm. are made of forged Durium, a high-copper alloy, which eliminates danger of corrosion and insures good contact between conductors. Each size of Servit is designed to accommodate at least two conductors of maximum diameter, but it will close down on a single maximum conductor or its equivalent.

Type KSO with nut retainer is identical in construction and materials to the Servit with the exception of the nut retainer device which prevents the nut-pressure bar assembly from dropping free when the connector is disassembled.

Nos. KS15 Thru KS28 Listed By

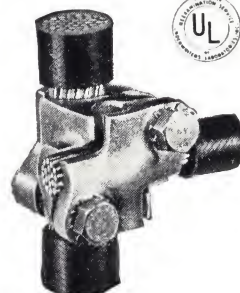


Cat. No.	Maximum Conductor Size	Shpg. Wt. Lbs. Per 100
KS90	10 Sol. to 12 Str.	100 2 1/4
KS15	8 Sol. to 8 Str.	100 3 3/4
KS17	6 Sol. to 7 Str.	100 5 1/4
KS20	4 Sol. to 5 Str.	100 8
KS22	2 Sol. to 3 Str.	100 11 1/4
KS23	1 Sol. to 2 Str.	100 12 1/4
KS25	2/0 Sol. to 1/0 Str.	50 17
KS26	3/0 Sol. to 2/0 Str.	25 28
KS28	4/0 Sol. to 4/0 Str.	25 59
KS31	350 Mcm.	12 93
KS34	500 Mcm.	12 135
KS39	750 Mcm.	6 300
KS44	1000 Mcm.	6 425

VERSITAP—TYPE QPX

All-purpose connector for use as a Tee, Link, Cross or Parallel Clamp. Takes wide range of cables; installed with a wrench. Ten sizes accommodate from No. 10 solid wire to 1000 Mcm cables.

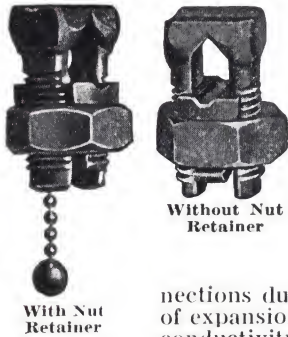
Made of high strength, high conductivity copper alloy, the Versitap consolidates the functions of a number of conductor types into one low priced device.



Cat. No.	Run Range	Tap Range	Shpg. Wt. Lbs.
QPX2C2C	6 Str. 2 Str.	6 Str. 2 Str.	1/2
QPX282C	1 Str. 4/0 Str.	6 Str. 2 Str.	1/2
QPX2828	1 Str. 4/0 Str.	1 Str. 4/0 Str.	3/4
QPX342C	250 Mcm. 500 Mcm.	6 Str. 2 Str.	3/4
QPX3428	250 Mcm. 500 Mcm.	1 Str. 4/0 Str.	1
QPX3434	250 Mcm. 500 Mcm.	250 Mcm. 500 Mcm.	1 1/2
QPX442C	500 Mcm. 1000 Mcm.	6 Str. 2 Str.	1
QPX4428	500 Mcm. 1000 Mcm.	1 Str. 4/0 Str.	1 1/2
QPX4434	500 Mcm. 1000 Mcm.	250 Mcm. 500 Mcm.	2
QPX4444	500 Mcm. 1000 Mcm.	500 Mcm. 1000 Mcm.	2 1/2

MATTHEWS NUTYPE SOLDERLESS WIRE CONNECTORS

SOLDERLESS—FOR ELECTRICAL WIRE CONNECTIONS



Nutype Wire Connectors are widely used by power companies and others for their many outstanding features. Nos. 10-NU through 0-NU have bolts and clamping jaws cold forged from same material as the copper conductors, hence no loose connections due to different coefficients of expansion. They assure maximum conductivity and will not indent, nick or damage the conductors.

Nutype connectors do away with soldering and permit the use of hard drawn copper wire instead of soft drawn. The copper content is 99%, therefore they are highly corrosion resistant and will not season crack. They provide other advantages such as lower cost — save time — promote safety — no radio interference — continuous service from the same connector — no sharp edges to nick wire and gloves.

Cat. No.	Material	Maximum Rated Gauge of Copper Wires	Std. Pkg.	*Net Price Per 100
NUTYPE CONNECTORS				
For Copper to Copper Connections—Without Nut Retainers				
10-NU	99% Copper	10 Sol. or Str.	100	\$13.38
**8-NU	99% Copper	8 Sol. or Str.	100	14.42
**6-NU	99% Copper	6 Sol. 8 Str.	100	14.88
**4-NU	99% Copper	4 Sol. 6 Str.	100	18.19
X-2-NU	99% Copper	2 Sol. 4 Str.	100	27.37
2-NU	99% Copper	1 Sol. 2 Str.	100	32.61
0-NU	99% Copper	1/0 Strand	50	43.50
00-NU‡	95% Copper	2/0 Strand	25	71.78
0000-NU‡	95% Copper	4/0 Strand	25	109.03
350-NU‡	90% Copper	350 Mcm Str.	12	265.03
500-NU‡	90% Copper	500 Mcm Str.	12	343.36
750-NU‡	90% Copper	750 Mcm Str.	6	579.28
1000-NU‡	90% Copper	1000 Mcm Str.	6	789.54

NUTYPE CONNECTORS

For Copper to Copper Connections—With Nut Retainers				
**66-NU	99% Copper	6 Sol. or 7 Str.	100	\$17.12
**44-NU	99% Copper	4 Sol. or 5 Str.	100	20.91
X22-NU	99% Copper	2 Sol. or 3 Str.	100	30.11
22-NU	99% Copper	1 Sol. or 2 Str.	100	35.88
X-0-NU	99% Copper	1/0 Strand	50	47.85

*Above prices apply for standard package to 2500 connectors. For larger quantities, prices on request.

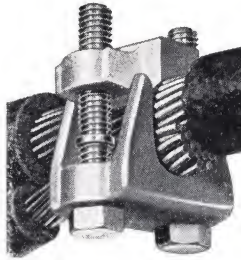
**Available in 3 wire capacity.

‡Silicon Bronze Slotted-bolt connectors 00-NU, 0000-NU, 350-NU, 750-NU and 1000-NU can be furnished but Matthews Uniclamp Connectors are recommended not only because they will cost much less but also because they will give much better and safer connections on stranded conductors.

All sizes may be assorted in not less than standard packages to obtain quantity prices.

MATTHEWS CONNECTORS

MATTHEWS UNICLAMP CONNECTORS



Made for use on copper or aluminum wires from 6 solid to 1000 MCM inclusive. They will connect two wires of their rated size or one wire of their size with one or more smaller tap-off wires, down to 8 solid. They have many advantages over the larger sizes of connectors of the split bolt and other designs as they provide greater pressure between wires; hence, greater holding power; are less costly; are easier to install and the assembled design is such that parts cannot become separated.

For Copper to Copper Connections

Cat. No.	Max. Size Copper Wire	Std. Pkg.	*Net Price Per 100
642-UC	6 Solid to 2 Stranded	100	\$19.46
0-UC	1/0 Strand	25	54.16
00-UC	2/0 Strand	25	62.40
0000-UC	4/0 Strand	12	85.65
35-UC	350 MCM Strand	6	158.77
50-UC	500 MCM Strand	6	185.22
75-100-UC	750 to 1000 MCM Strand	1	370.45

Plated connectors available for Aluminum Conductors.

For copper to aluminum connections, plated connectors are equipped with spacer bars having bi-metal surfaces.

Ask for Bulletin 206-A giving complete information.

*Above prices apply for standard package quantities to 99. For larger quantities and connectors for aluminum connections and copper to aluminum connections, prices on request.

MATTHEWS SERVICE ENTRANCE CONNECTORS

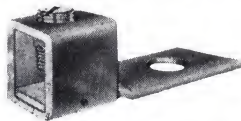
Provide a sturdy, yet inexpensive means of joining two house service wires, or other similar end to end connectors, (not under tension) without use of solder. For use with either solid or stranded wires.

The body is one piece, hard drawn copper, amply strong. Slotted hexagon bolt head.



Cat. No.	Copper Wire Size	Std. Pkg.	Shpg. Wt. Lbs. Per 100	Net Price Per 100
12-SE	12 Strand	100	..	\$7.05
10-SE	8 or 10 Strand	100	..	8.16
6-SE	6 Strand	100	3	9.39
4-SE	4 Strand	100	4	10.86
2-SE	2 Strand	100	..	17.79

MATTHEWS SOLDERLESS LUGS



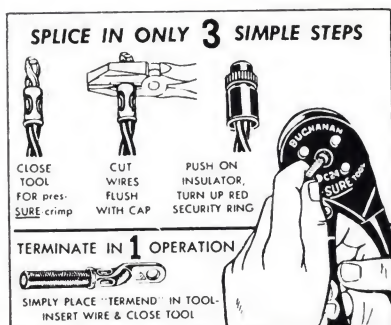
Matthews Solderless Lugs are made of pure copper, hence highest conductivity, assuring utmost electrical efficiency.

Lugs are simple in design and sturdily constructed — have ample contact area to carry sustained overloads.

Cat. No.	Ampere Rating	Max. Wire	Min. Wire	Std. Pkg.	Net Price Per 100
SL-8	35	8	14	100	\$8.03
SL-4	70	4	14	100	11.30
SL-0	125	0	4	100	18.60
SL-4/0	225	4/0	2	50	51.43
SL-500	400	500 MCM	4/0	10	130.31

BUCHANAN "pres-SURE" CONNECTORS for ELECTRICAL WIRING

Underwriters Approved



The Buchanan Splice Caps for "pigtail" splicing of electrical wires are now available in an improved open-end construction which considerably facilitates their installation and inspection.

These new open-end Splice Caps insure that wire insulation is always flush with the Splice Cap for maximum circuit protection and that wires are always inserted to the full depth of the Splice Cap for maximum joint efficiency.

Only two sizes of Splice Caps are required for all most frequently used combinations of two or more wires ranging all the way from two #18 to three #8. Quickly applied snap-on insulators of fixed insulation value eliminate necessity for taping of joints and insure against insulation breakdown in service.

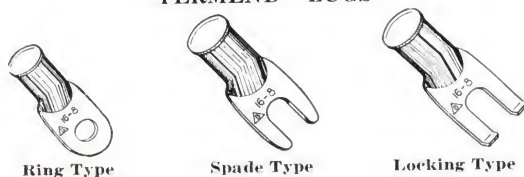
Splice Caps

Cat. No.	For Wire Sizes	Use Tool No.	Unit Pkg.	Shpg. Wt. Lbs. Per 1000	Price Per 100
2001S	2-20 to 2-14	C22A	1000	1	\$0.40
2004S	2-18 to 3-12	C24	500	2 1/4	1.00
2011S	3-12 to 3-8	C24	250	4 3/4	2.10

Splice Cap Insulators

2005	For No. 2004S Splice Cap	500	3 1/2	1.20
2012	For No. 2011S Splice Cap	250	7 1/2	2.50

"TERMEND" LUGS



Ring Tongue Type

Cat. No.	For Wire Sizes	For Stud Size	Use Tool No.	Shpg. Wt. Lbs. Per M	Price Per 100
16-8-6	(1) 16 to (1) 8	#6	C24	4 3/4	\$2.50
16-8-8	(1) 16 to (1) 8	#8	C24	4 3/4	2.50
16-8-10	(1) 16 to (1) 8	#10	C24	4 1/2	2.50
16-8-1 1/4	(1) 16 to (1) 8	1/4"	C24	4 1/4	2.50

Plain Spade Type

16-8-6S	(1) 16 to (1) 8	#6	C24	4	2.50
16-8-8S	(1) 16 to (1) 8	#8	C24	3 3/4	2.50
16-8-10S	(1) 16 to (1) 8	#10	C24	3 3/4	2.50

Locking Spade Type

16-8-6L	(1) 16 to (1) 8	#6	C24	4	2.50
16-8-8L	(1) 16 to (1) 8	#8	C24	3 3/4	2.50
16-8-10L	(1) 16 to (1) 8	#10	C24	3 3/4	2.50

Unit package, 250.

BUCHANAN "pres-SURE" CONNECTORS for ELECTRICAL WIRING "pres-SURE-tools"



The C24 hand operated "pres-SURE-tool" which installs both 2004S and 2011S Splice Caps also installs manufacturer's Termend lugs on all wire sizes from No. 16 to No. 8. This tool features an exclusive four-way "pres-SURE-crimping" action which insures permanent connections of maximum electrical and mechanical efficiency and is equally effective on solid or stranded or on combinations of solid and stranded wires. Weighing just one pound, this tool is only 8 inches in overall length and is provided with easy-grip handles protected with vinyl tubing.



Illustrations, left to right, show how the uniform converging action of the 4 plungers in the Buchanan Tool draws connector and conductors together to form a solid permanent unit.

Cat. No.	Splice Cap	Termend Lugs	Unit Pkg.	Wt. Lbs. Each	Price Each
C22A	2001S		1	1	\$5.90
C24	{2004S} {2011S}	16-8 Series	1	1	5.90

BRYANT WIRE CONNECTORS N. E. C. Standard SOLDERLESS WIRE CONNECTORS



Wire Capacity: No. 767—2 No. 14 and 2 No. 18 or 4 No. 16 or 5 No. 18. No. 768—Solid or Stranded, 2 No. 12 and 1 No. 18 or 2 No. 14 and 1 No. 18. No. 769—Solid or Stranded, 3 No. 10 and 1 No. 18 or 4 No. 12 and 1 No. 18 or 6 No. 14 and 1 No. 18.

Cat. No.	Takes Wires Up to	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
767	3 No. 18	100	1000	4	\$1.45
768	4 No. 14	100	1000	8	1.76
769	3 No. 10	100	1000	13	3.30

MUELLER UNIVERSAL CLIPS CLIP INSULATORS



No. 27 Clip with No. 29 Insulator

Cat. No.	Description	Price Each
13	Flexible Ins. for Clips 11, 11-A	\$0.54
23	Flexible Ins. for Clips 21, 21-A	.33
26	Flexible Ins. for Clips 24, 24-A	.23
29	Flexible Ins. for Clips 27, 27-C	.17
35	Flexible Ins. for Clip 33	1.42
47	Flexible Ins. for Clips 45, 45-C	.11
49	Flexible Ins. for Clips 48B, 48C, 50C, 51C	.11
74	7MM. Flexible Insulator for Clip 95	.14
87	Flexible Ins. for Clips 85, 85-C and 85-T	.10
90	7MM. Flexible Insulator for Clip 27	.14
93-P	Plastic Insulator for Clip 88	.05

MUELLER UNIVERSAL CLIPS

Screw or lug connections; no solder required; channel construction throughout; polarity indications + for positive, plain for negative.



Cat. No.	Description	Length of Clip	Spread of Jaws	Price Each
11	200 amp., solid copper Clip with lug.....	6"	1 3/4"	\$1.17
11-A	100 amp., Clip, with lug, steel, lead plated	6"	1 3/4"	.75
21	100 amp., solid copper Clip with lug.....	4 1/2"	1 1/4"	.61
21-A	50 amp., Clip with screw, steel, lead plated	4"	1 1/4"	.21
22	Twin-Clip with screw, steel, cadmium plated	2"	1 1/2"	.10
24	50 amp., solid copper Clip with screw	2 7/8"	1"	.25
24-A	25 amp., Clip with screw, steel, lead plated	2 7/8"	1"	.14
27	20 amp., Clip with screw, steel, cadmium plated	2 7/8"	5/8"	.10
27-C	40 amp., solid copper Clip with screw	2 7/8"	5/8"	.18
33	300 amp., solid copper Clip with lug.....	7 3/4"	2"	2.00
45	Pee-Wee Clip with screw, steel, cadmium plated	1 1/2"	3/8"	.07
45-C	Solid copper Clip with brass screw, phosphor bronze spring.	1 1/2"	1/4"	.10
48-B	Clip with screw, steel cadmium plated	2"	1/2"	.07
48-C	Solid copper Clip, with screw	2"	1/2"	.12
50-C	Needle Clip, solid bronze, with screw	2 1/4"	1/2"	.20
51-C	Solid Bronze Clip with screw	2 1/4"	1/2"	.15
88	Pee-Wee phosphor bronze Clip	1 1/8"	1/4"	.16
95	Clip with screw, steel, cadmium plated	2"	1/2"	.07

Packed 10 in a box; 100 in a standard carton.

ALLIGATOR AND CROCODILE CLIPS



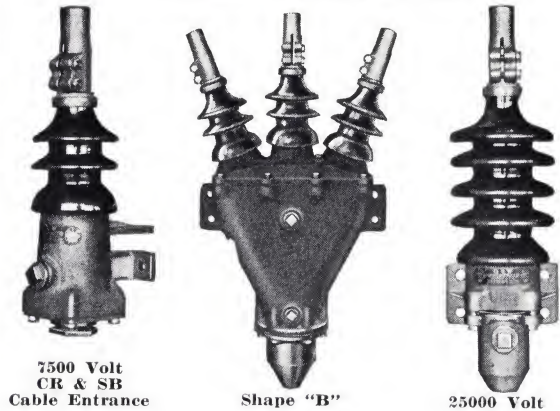
Cat. No.	Description	Price Each
60	Alligator Clip, steel, solder connection	\$0.07
60-S	Alligator Clip, steel, screw connection	.08
60-HS	Alligator Clip, steel, insulated handle, screw connection	.11
60-CS	Alligator Clip, solid copper, screw connection	.11
60-CHS	Alligator Clip, solid copper, insulated handle, screw connection	.15
85	Crocodile Clip, steel, screw connection, cadmium plated	.08
85-C	Crocodile Clip, solid copper, brass screw, bronze spring	.11
85-T	Crocodile "Tip-Clip," steel, screw connection, cadmium plated	.16

Packed 10 in a box; 100 in a standard carton.

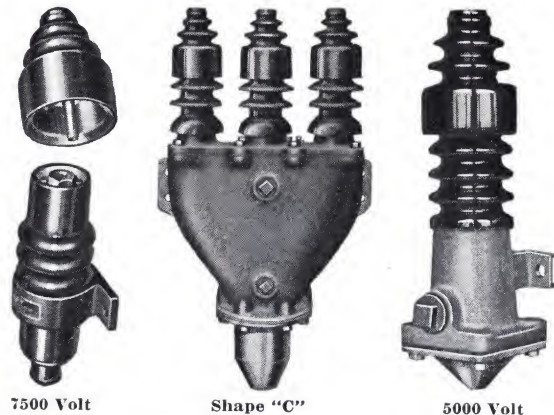
G & W POTHEADS

The design of G & W Potheads from both the electrical and mechanical standpoint is the result of many years' experience. Having such a variety of shapes and sizes we can furnish you with potheads for any special condition. Any special shape of pothead casting is adapted to standard cable entrances and porcelain. Simplicity and ease of installation are important features of these designs. We are always glad to supply you with detailed information on design or installation.

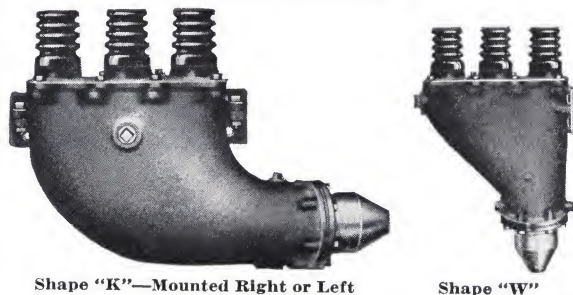
TYPE "T" CAPNUT TERMINAL Definite Oil-Tight Construction Interchangeable Style of Lugs



TYPE "ES" DISCONNECTING With Porcelain Caps Enclosing Connectors



TYPE "N" INDOOR ONLY Without Connectors



Other miscellaneous types are assembled from standard parts, for any voltage or ampere rating.

G & W POTHEADS

INSTRUCTIONS FOR ORDERING

Give following information:

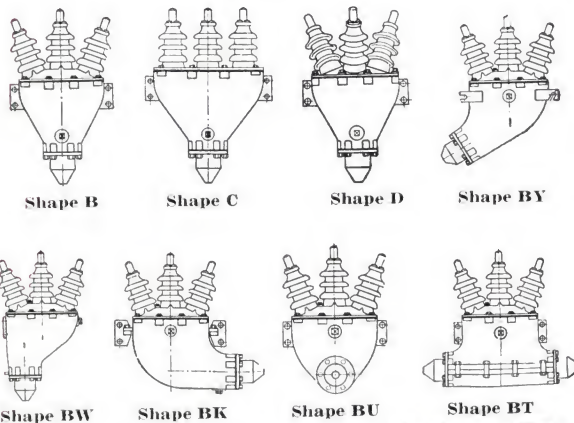
1. Mfrs. Catalog No. if possible.
2. Number of Conductors.
3. Operating Voltage. (Alternating or Direct.)
5. Outside Diameter of Cable.
6. Shape of Pothead.
7. Outdoor or Indoor use.
8. Type of Connector.
9. Type of Cable Entrance.
10. Size of Conduit Coupling.
11. Diameter over Armor. (If Clamp is wanted.)

Items listed in heavy type are essential.
Give all information available.

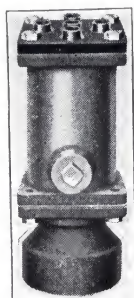
Filling Compound is furnished as a separate item on orders.

Cable Entrances (Wiping Sleeve, Combination CR & SB or Plain Bushings) are included in price. Conduit and Couplings and Armor Clamps are priced extra.

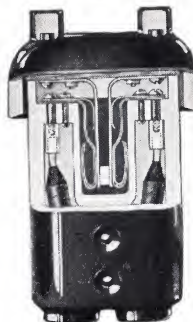
POTHEAD SHAPES



TYPE "P"
SHAPE "C"
6600 Volts Indoor
Porcelain Lid



TYPE "B"
Control Cable
(600-volt)
Pothead



G & W Series
Cutout for Street
Lighting Cables



G & W Cable
Support, with
copper braid. No
crushing of ca-
bles. No wear on
lead sheath.

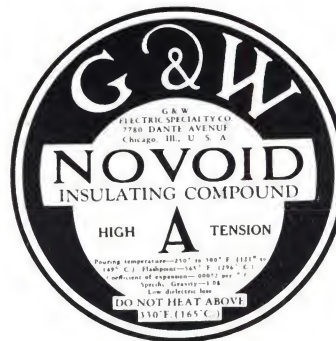


G & W Conduit
Bell. For closing
top of conduit
and supporting
cables.



G & W TYPE "D"
Tee Splice Box. Also
furnished in straight
and cross (4-way)
shapes.

G & W INSULATING COMPOUND



G & W Novoid Insulating Compound is an excellent grade of chemically inert material suitable for use in potheads, underground cable boxes and cable joints. When handled at the proper temperature a homogeneous dielectric filling with no voids will result.

ASPHALTIC BASE —

Novoid "A"—(Medium soft)—for usual installation of sealed potheads (capnut and disconnecting types).

Novoid "C" — (Medium hard) — For straight through type potheads having no definite seal. For hot climates and exposures. For cable boxes and splice boxes.

Ozite "B"—(Medium hard)—For general use, particularly recommended for cable joints because of its low power factor.

OIL INSOLUBLE —

Novoid "X" has all the properties of other Novoid compounds plus the added advantage of insolubility in mineral oils. It is recommended for use in potheads and cable joints when necessary to avoid troubles due to migration. It has a tendency to "stay-put" because it does not mix with cable oil.

G & W CABLE SPLICING KIT



G&W furnishes, usually from stock, unit packages of electric cable splicing material, "Splicing Kits," for all standard and special joints on rubber, varnished cambric and paper insulated (solid type) power and telephone cables.

Each item is supplied in the correct quantity for a properly designed joint.

Time and expense of securing various items from different sources is saved.

Accumulation of dead stock is avoided. No waste.

All materials are kept clean and ready for use.

Each Unit Splicing Kit is labeled for easy identification.

Give complete cable data on inquiries and orders.

KESTER SOLDER

KESTER SOLID WIRE SOLDER



Uniform in gauge and alloy. The same high quality in metals and fabrication found in Kester Flux-Core solders. Every spool carries positive alloy identification. 1 lb., 5 lb., 20 lb. spools and 50 lb. reels.

Price, per Pound.....Market

KESTER RADIO SOLDER

The handy size package of Plastic Rosin-Core solder in flat or ribbon type. Just the unit for the radio fan, amateur or serviceman's kit.

Each can contains a plentiful supply sufficient for considerable soldering and it costs the consumer but little.

Price, Display Carton of Ten CansMarket



KESTER SOLDERING PASTE



An improved soldering paste due to new manufacturing methods. More uniform. Every portion alike in fluxing strength. No failures with Kester, a perfect job every time. Carton of ten.

Price, 2-oz. Cans.....Market
Price, 1-lb. Cans.....Market

KESTER SOLDERING SALTS

The easiest and most economical way to make your own soldering acid. The addition of water results in a flux that is very efficient for general work. Excellent for use in the automotive shop and for factory work. Available in 5, 10, and 50 pound pails.

Price, per Pound.....Market



KESTER ALUMINUM SOLDER

Flux-Core

The only aluminum solder of the flux-core type — has its own necessary flux in the core. The "answer" to that long-existing demand for a practical solder of this kind.

Price, Display Carton of Ten Cans.....Market



KESTER SOLDER

KESTER ACID-CORE SOLDER

The "one Acid Filled Solder" that is the original Cored solder. Kester Acid-Core solder meets all general soldering requirements. Easy-to-use, saves time or labor, and always makes a perfect job that is lasting. Available in 1, 5, and 20 pound spools.

Price, per Pound.....Market



KESTER BAR SOLDER



Best of metals used. Definite alloy-marking. Easy flowing. Convenient-to-handle one pound bars.

Price, Bar Solder.....per Pound (Market)

KESTER PLASTIC ROSIN-CORE SOLDER

The most efficient solder for all electrical and radio work, automotive or otherwise. Eliminates all possibility of corrosion, resistance or leakage. "Plastic Rosin," a feature of Kester, enables the user to solder perfectly and with ease.

Available in 1, 5, and 20 pound spools.

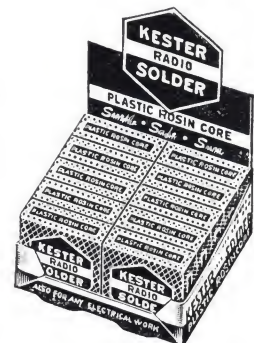
Price, per Pound.....Market



KESTER METAL MENDER

The handy tool-kit package of Kester Acid-Core solder. There is a generous coil in every can. Kester Metal Mender has numerous uses everywhere. Saves its cost many times in making and repairing all sorts of metal objects.

Price, Display Carton of 10 CansMarket



KESTER "RESIN-FIVE" CORE SOLDER

Non - corrosive and non - conductive. The better solder for TV, all radio and electronic parts — everything electrical. For those jobs difficult to solder with conventional Rosin - Core solder. 1 and 5 pound spools.

Price per Pound.....Market



DUTCH BRAND TAPE DUTCH BRAND FRICTION TAPE



Dutch Brand Friction Tape is an "Extra Service" product. High grade, dependable, non-raveling with exceptional insulating qualities. Resists up to 2000 volts through one thickness, is strong, sticks tight, and lasts longer in any climate.

Size Rolls	Std. Pkg. Contains	Price Per Carton				Price Per Roll
		Less Than 5	5 to 9 Ctn. Lots	10 to 14 Ctn. Lots	15 or More Ctn. Lots	
No. 1	16 Rolls	\$0.97	\$0.95	\$0.93	\$0.91	\$0.10
No. 2	16 Rolls	1.66	1.62	1.59	1.55	.18
No. 4	12 Rolls	2.27	2.22	2.19	2.13	.35
No. 8	6 Rolls	2.13	2.07	2.04	1.99	.60

"JUMBO" SHOP PACKAGE DUTCH BRAND FRICTION TAPE



For the convenience of repairmen, electrical contractors, industrial users and wherever individually cartoned tape is not required.

Package contains 10 regular No. 8 rolls Dutch Brand Friction Tape intended primarily for shop use. Carries the same long-life guarantee as Dutch Brand Friction Tape individually cartoned.

"Jumbo" Shop Package	Approx. Shpg. Wt.	Price Per Package			Price Per Pkg.
		Less Than 5	5 to 9 Pkg. Lots	10 Pkgs. & Over	
10 No. 8 Rolls	5 lbs.	\$3.30	\$3.25	\$3.15	\$5.50

INDUSTRIAL GRAY FRICTION TAPE

A super quality gray friction tape for industrial use. Each roll contains 82½ feet, strong, non-raveling tape, of high electrical resistance. It is unexcelled for all types of electrical construction and maintenance work, as well as mechanical and production uses. Supplied in individual cartons.



Quantity In Case	Less Than 100 Rolls	Price Per Roll		Price Per Roll
		100 Rolls and Over	100 Rolls and Over	
No. 8 Rolls	100 Rolls	\$0.47	\$0.46	\$0.78

DUTCH BRAND TAPE DUTCH BRAND RUBBER TAPE



Dutch Brand Rubber Tape is the perfect splicing compound. Stretches readily, fuses perfectly, resists up to 18,000 volts through a single thickness and contains no corrosive chemicals.

Size Rolls	Price Per Roll				Price Per Roll
	Less Than 30 Rolls	30 to 99 Rolls	100 to 199 Rolls	200 Rolls or More	
No. 2	\$0.105	\$0.1025	\$0.10	\$0.0975	\$0.20
No. 4	.19	.18	.175	.17	.35
No. 8	.355	.345	.34	.335	.60

"HIPPO" SHOP PACKAGE RUBBER INSULATING TAPE

Electrical contractors, repairmen, and industrial users of rubber tape will find the "Hippo" shop package convenient and more economical because the cost of individual cartons is eliminated. The package is furnished as a complete unit of 10 regular No. 8 rolls Dutch Brand Rubber Tape.



"Hippo" Shop Package	Approx. Shpg. Wt.	Price Per Package			Price Per Pkg.
		Less Than 5	5 to 9 Pkg. Lots	10 Pkgs. & Over	
10 No. 8 Rolls	5 lbs.	\$3.45	\$3.40	\$3.30	\$5.75

"CUB" SHOP PACKAGE DUTCH BRAND NARROW WIDTH FRICTION TAPE



This narrow width roll is a boon to the many users of Friction Tape who may be trying to use the wider widths or tear the tape to fit their purpose. The ¾-inch black Friction Tape is of the same high quality as the standard widths. Packed, 10 60-foot rolls to a package.

"Cub" Shop Package	Approx. Shpg. Wt.	Price Per Package			Price Per Pkg.
		Less Than 5	5 to 9 Pkg. Lots	10 Pkgs. & Over	
10 Rolls	2½ lbs.	\$1.80	\$1.75	\$1.70	\$3.00

SENIOR FRICTION TAPE DISPENSER

Contains 24 rolls No. 1, 24 rolls No. 2, 12 rolls No. 4 and 12 rolls No. 8 Dutch Brand Friction Tape—a well balanced assortment. Ideal for electrical supply and appliance stores, automotive accessory stores, hardware and variety stores, service stations, etc.

Sturdily built of clear plastic. Every carton plainly visible. Revolves easily. Occupies small counter space.



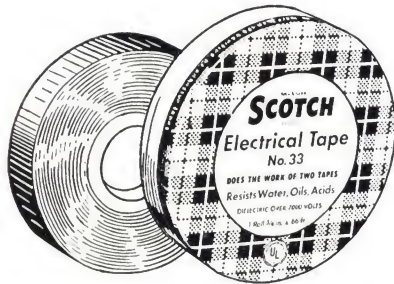
Senior Dispenser With Tape	Approx. Shpg. Wt.	Dealers' Price		Consumer Price (Contents Only)
		Complete	Complete	
With Tape	19 lbs.	\$13.00	\$18.12	

"SCOTCH" BRAND ELECTRICAL TAPE

"SCOTCH" No. 33 ELECTRICAL TAPE

With Plastic Backing

Listed Under Reexamination Service of Underwriters' Laboratories, Inc.



This tape has a stretchy, rubber-like plastic backing that enables it to do the work of two ordinary tapes. Goes on in one operation, instead of two, and does a better job. Its stretchability and resistance to oil and moisture equip it perfectly for a wide range of uses in electrical construction and repair. Its thinness gives it an important advantage in eliminating "over-stuffed" junction boxes.

This revolutionary Electrical Tape is backed with the same synthetic resin that is used on Type T synthetic insulated wire. It provides complete electrical and mechanical protection.

Scotch No. 33 Electrical Tape	Packing Type of Packing	Carton	Price Per Roll
$\frac{3}{4}$ " x 66 ft.	1 Roll per Can	12	\$1.50
$\frac{3}{4}$ " x 20 ft.	12 Rolls per Tube	144	.55

"SCOTCH" No. 27 ELECTRICAL TAPE

With Glass Cloth Backing and Thermo Setting Adhesive



The glass cloth backing of No. 27 Electrical Tape is not harmed by high temperatures, resists flame, does not shrink, stretch or rot; has extremely high tensile strength — 150 pounds per inch of width. Curing of the thermosetting adhesive increases dielectric strength about 500 volts and harms none of the other electrical properties.

Packing: 1— $\frac{1}{2}$ -inch x 66 ft. roll per can, 12 cans per carton.

Price, No. 27 "Scotch" Electrical Tapeper roll \$1.67

"SCOTCH" BRAND ELECTRICAL TAPE

JOB SIZE SCOTCH No. 33 ELECTRICAL TAPE

Twelve "Job Size" twenty-foot rolls of Scotch No. 33 Electrical Tape in a strong, neat tube—each roll a convenient one day supply for an electrician with a steady schedule of wiring assignments. Electricians like the twenty-foot roll because it is easy to use and easy to carry. The neat compact tubes take up little storage room and give the tape perfect protection while in stock.

Packing: 12— $\frac{3}{4}$ -inch x 20 ft. roll per tube; 144 rolls (12 tubes) per carton.

Price, No. 33 "Scotch" Electrical Tape per Job Size Roll\$0.55



U.S. TAPES AND SPLICING COMPOUNDS

U.S. SECURITY FRICTION TAPE

High grade, black, moderately priced, electrical and all-purpose tape. Non-ravelling, strong, adhesive—will not dry out. Made from firmly and evenly woven sheeting, thoroughly impregnated with the rubber compound—thus avoiding pinholes.



Furnished $\frac{3}{4}$ -inch wide, boxed or in foil, in sizes Nos. 1, 2, 4 and 8. Nos. 1 and 2 furnished in attractive counter displays of 32 and 16 rolls respectively.

Prices on application.

U.S. HOLDTITE FRICTION TAPE



High quality, black friction tape for all electrical work. High dielectric strength makes it especially suitable for high voltage work.

Furnished $\frac{3}{4}$ -inch wide, boxed or in foil, in No. 4 rolls (33 ft.) and No. 8 rolls (67 ft.). Also No. 8 specification size rolls (82 $\frac{1}{2}$ feet) the A.S.T.M. standard roll.

Prices on application.

U.S. TAPES AND SPLICING COMPOUNDS

U.S. SECURITY RUBBER TAPE



A high grade splicing compound. Possesses necessary fusing quality to form permanent, waterproof joint without heat. U.S. Security is easy to handle and very satisfactory for most wiring jobs. Rubber compound contains no free sulphur which causes corrosion. Furnished $\frac{3}{4}$ -inch wide, in No. 4 (10 ft.) and No. 8 (21 ft.) rolls, boxed or in foil.

Prices on application.

U.S. HOLDTITE A.S.T.M. RUBBER TAPE

High grade splicing compound giving maximum protection for both high and low voltage.

Guaranteed yardage makes it possible to offer high grade material at no extra cost per foot of tape. Has high tensile strength, elongation, dielectric resistance. Easy to work with because of its fine tackiness and quick fusing ability.

Furnished $\frac{3}{4}$ -inch wide, No. 8 rolls, minimum footage 30 feet, boxed or in foil.

Prices on application.

USCO SPLICING COMPOUND



Highest quality splicing compound. High dielectric resistance makes it especially suitable for high voltage work where even the slightest leakage must be avoided. Developed primarily for most exacting jobs encountered by railroads, power, and communication companies. Only finest high grade rubber is used—insures a perfect and waterproof splice. High tensile gives added protection against mechanical abuse, making splice as durable as insulation on wire or cable. Fuses readily without heat.

Packed in attractive airtight tin container. Furnished $\frac{3}{4}$ -inch wide, No. 8 roll, minimum footage 30 feet.

Prices on application.

HEMCO WIRING DEVICES

CUBE TAP CORD SETS

N. E. C. Standard



No. HR0618

With Rubber Cord and Cap

10 Amp., 125 Volts — 5 Amp., 250 Volts					
Cat. No.	Length	Std. Pkg.	Pkg. Wt.	Price	Per 100
HR0618	6 ft. #18	50	16	\$72.00	
HR0918	9 ft. #18	50	18	82.00	
HR1218	12 ft. #18	50	20	96.00	

Carton quantity, 10.

BRYANT FLUSH CONVENIENCE OUTLETS

N. E. C. Standard

STANDARD TYPES

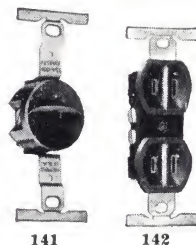
15 Amp., 125 Volts; 10 Amp., 250 Volts

PARALLEL SLOTS—SIDE WIRING

For Residential Installations

Meets Federal Specifications. Yoke is securely anchored and incorporates detachable washer type plaster ears.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
6122	Brown	10	100	16	\$33.00
6122-I	Ivory	10	50	8	39.00



141

142

PARALLEL SLOTS
Wide Yoke—Side Wiring

Cat. No.	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
141	10	100	12	\$22.00
142	10	100	18	22.00
141-I	10	50	6	28.00
142-I	10	50	8	25.00

Four terminal screws.

PARALLEL SLOTS

Narrow Yoke—Side Wiring

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
142-E	Brown	10	100	17	\$17.00
142-EI	Ivory	10	50	8	20.00



"T" SLOTS—BACK WIRING

Provides a new method of wire connection plus an added safety feature in that there are no exposed wires. If desired, the outlet can be wired in the conventional side wiring manner.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
9260	Brown	10	100	22	\$50.00
9260-I	Ivory	10	50	11	56.00

"T" SLOTS—DOUBLE-SIDED CONTACTS

All bakelite; wide yoke.

Cat. No.	Description	Carton	Std. Pkg.	Pkg. Wt.	Price Per 100
4831	Brown	10	100	15	\$34.00
4831-I	Ivory	10	50	7	40.00



HEMCO WIRING DEVICES

N. E. C. Standard



TWO LAMP OUTLET

Brown bakelite. One-piece molded assembly. 660 watts, 250 volts.

Cat. No.	Color	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
200		10	100	21	\$70.00

TWO LAMP OUTLET

Bakelite. 660 watts, 250 volts.

Cat. No.	Color	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
20	Brown	10	100	11	\$34.00



THREE LAMP OUTLET

Brown bakelite. One-piece molded assembly. 660 watts, 250 volts.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
203	10	50	15	\$110.00

TWO POWER AND ONE LAMP OUTLET

Threaded outlet permits the use of Uno or standard shade holders. Equipped with prong-type side outlets.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
204	10	100	15	\$78.00



TWO POWER AND ONE LAMP OUTLET

660 Watts, 250 Volts

Popularly priced. Brown.

Cat. No.	Color	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
124	Brown	10	100	12	\$38.00

PULL CHAIN DESIGN

660 Watts, 250 Volts

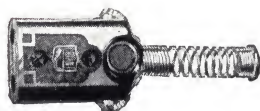
Pull chain controls lamp outlet. Multiple plug outlets are always on.

Cat. No.	Color	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
125	Brown	10	100	18	\$55.00



NO. 667 SWITCHLESS PLUG

10 Amp., 125 Volts; 5 Amp., 250 Volts



Brown bakelite. Will fit nearly all types of standard heating appliances.

Silver Monel Contacts

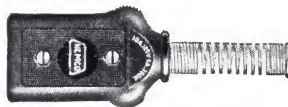
Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
*667	10	100	15	\$50.00

*Not N.E.C. Standard.

HEMCO WIRING DEVICES

N. E. C. Standard

No. 738 SWITCHLESS PLUG



Brown bakelite. Will fit many types of standard heating appliances.

Cat. No.	Amperes		Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
	125 Volts	250 Volts				
738	10	5	10	100	12	\$26.00

No. 280 SWITCH APPLIANCE PLUG

Brown bakelite. Will fit many makes and types of standard heating appliances.



Cat. No.	Amperes		Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
	125 Volts	250 Volts				
*280	15	5	10	50	10	\$64.00

TABLE APPLIANCE PLUG WITHOUT SWITCH



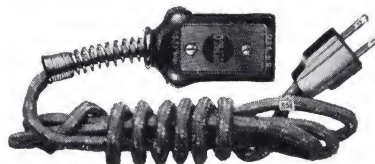
Brown bakelite. This plug is for use with table appliance having $\frac{3}{8}$ -inch round contact pins, $\frac{9}{16}$ to $\frac{1}{4}$ -inch long, spaced $\frac{1}{2}$ -

inch on centers.

Cat. No.	Amperes		Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
	125 Volts	250 Volts				
*966	10	5	10	100	11	\$24.00

NO. HC633 HEATER CORD SET

10 Amp., 125 Volts—5 Amp., 250 Volts

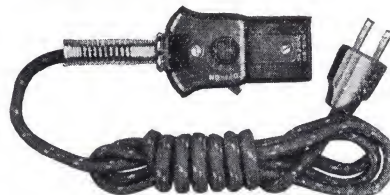


Made of 3000 cycle braided heater cord with switchless plug.

Cat. No.	Length Feet	With Switchless Plug		Std. Pkg.	Wt. Lbs.	Price Per 100
		Car-ton	Std. Pkg.			
*HC633	6	10	50	22		\$98.00
*HC833	8	10	50	25		120.00

NO. HC630 HEATER CORD SET

10 Amp., 125 Volts—5 Amp., 250 Volts



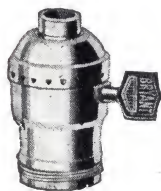
Made of 3000 cycle braided heater cord with switch plug.

Cat. No.	Length Feet	With Switch Plug		Std. Pkg.	Wt. Lbs.	Price Per 100
		Car-ton	Std. Pkg.			
*HC630	6	10	50	23		\$150.00
*HC830	8	10	50	25		160.00

*Not N.E.C. Standard.

BRYANT BRASS SHELL LAMPHOLDERS

N.E.C. Standard

**COMPETITIVE GRADE—
FLUTED CATCH**

With Exposed Cap Fastening

Key—250 Watts, 250 Volts

Cat. No.	Style Cap	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
HA10 DIP	1/8-inch	25	250	40	\$47.00

Keyless—660 Watts, 250 Volts

HA13 DIP	1/8-inch	25	250	36	39.00
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Pull—250 Watts, 250 Volts

HA15 DIP	1/8-inch	25	250	49	63.00
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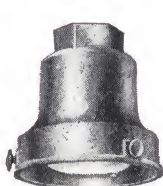
These combinations being made only in Bright Dipped Finish.

**BRYANT WEATHERPROOF
LAMPHOLDERS**

N.E.C. Standard

DIE CAST HOOD TYPE

660 Watts, 250 Volts



No. 3996



No. 3997



No. 3998

With 1/2-Inch Hexagonal Nipple

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3996	For 2 1/4-inch Shade	10	100	55	\$92.00

With 1/2-Inch 90° Angle Nipple

3997	For 2 1/4-inch Shade	10	100	58	100.00
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With 1/2-Inch Hexagonal Nipple

3998	No Shadeholder	10	100	50	84.00
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BRYANT PORCELAIN RECEPTACLES

N.E.C. Standard

OUTLET BOX LAMPHOLDERS

660 Watts, 250 Volts



No. 227

Keyless and pull porcelain lampholders designed for mounting on either 3/4 or 4 inch outlet boxes.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
For 3/4 or 4 Inch Boxes					
5228	Keyless	5	50	40	32.00
5287	Pull, Chain and Ins...	5	50	44	65.00
5288	Pull, Chain and Cord	5	50	44	58.00

BRYANT PORCELAIN RECEPTACLES

BAKELITE PONY TYPE



Diameter main base, 1 1/4 inches; diameter over lugs, 2 7/8 inches; height, 1 3/8 inches. Holes for supporting screws spaced 1 3/4 inches on centers.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
715	10	100	11	\$25.00

BRYANT LUMILINE LAMPHOLDERS

N.E.C. Standard

660 Watts, 250 Volts

Mounting hole spacings are standard 1 1/4 inches for flush and 1 inch for surface installations.

END CAPS**Shallow End Caps**

Cat. No.	Type	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3890	Black	50	200	2	\$12.00
3890-W	White	50	200	2	13.00



No. 3890

Deep End Caps

No. 3889

Cat. No.	Type	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3889	Black	50	200	5	\$15.00
3889-W	White	50	200	5	16.00

BASES, FLUSH OR SURFACE MOUNTING**Single Base**

Cat. No.	Type	Std. Pkg.	Pkg. Wt.	Price Per 100
3891	Black	200	7	\$23.00
3891-W	White	200	7	27.00

Carton, 50.



No. 3891

Twin Base

No. 3892

Cat. No.	Type	Std. Pkg.	Pkg. Wt.	Price Per 100
3892	Black	200	13	\$34.00
3892-W	White	200	13	36.00

Carton, 50.

BASES, SURFACE MOUNTING

Cat. No.	Type	Std. Pkg.	Pkg. Wt.	Price Per 100
2996	Black	200	7	\$24.00
2996-W	White	200	7	26.00

Carton, 50.



No. 2996

BASES, FLUSH MOUNTING

No. 2993

Cat. No.	Type	Std. Pkg.	Pkg. Wt.	Price Per 100
2993	Black	200	5	\$24.00
2993-W	White	200	5	28.00

Carton, 50.

LUMILINE LAMPHOLDER WITH SWITCH

With Deep Collar

660 Watts, 250 Volts

Provides individual control of bracket fixtures using Lumiline lamps. Equipped with smooth action rotary switch.

Cat. No.	Color	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3893	Black	50	200	5	\$43.00
3893-W	White	50	200	5	45.00



No. 3893

BRYANT FLUORESCENT DEVICES

N.E.C. Standard

STANDARD LAMPHOLDERS

For 1-Inch and 1½-Inch Lamps

660 Watts, 250 Volts



No. 4300

Twist Turn Contacting
Flush or Surface Mounting

Cat. No.	Style	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4300	Black	10	100	6	\$11.00
4300-W	White	10	100	6	13.00

WITH STARTER SOCKETS

Twist Turn Contacting

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4307	10	100	14	\$25.00
4307-W*	10	100	14	27.00

*Lampholder only is white; Starter Socket is black.



No. 4307

STARTER SOCKETS

660 Watts, 250 Volts

Separate or Remote Mounting



No. 4309

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4309	10	100	5	\$13.20

FIXTURE LAMPHOLDERS

For 1-Inch Lamps Only

660 Watts, 250 Volts

Straight Push Contacting

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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With Metal Bracket

4303	Black	10	100	5	\$19.00
4303W	White....	10	100	5	21.00

Without Metal Bracket

4304	Black	10	100	6	22.00
4304W	White....	10	100	6	24.00



No. 4303



No. 4304

FIXTURE LAMPHOLDERS

With Wire Leads

For 1-Inch and 1½-Inch Lamps

Twist Turn Contacting



Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4328	Black	10	100		\$18.80
4328-W	White	10	100		19.80

LAMP STARTERS

For Standard Size Lamps

Cat. No.	Lamp Watts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
FS2	15 and 20	10	100	3	\$23.00
FS4	30 and 40	10	100	3	23.00
FS25	25	10	100	3	23.00

For 32 Watt Circline Lamps

FS12	32	10	100	3	25.00
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"No-Blink" Starter

FS4NA	40	10	100	3	72.00
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Manual Reset "No-Blink" Starters

Cat. No.	Lamp Watts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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2-Pin Type

FS20	15 and 20	10	100	3	\$80.00
FS30	30	10	100	3	88.00
FS40	40	10	100	3	72.00



FS-4



FS-40

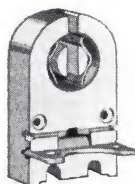
BRYANT FLUORESCENT DEVICES

N.E.C. Standard

MOGUL LAMPHOLDERS

For 85, 90 and 100 Watt Lamps

660 Watts, 250 Volts



No. 4350-W

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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With Metal Bracket

4350W	White	10	50	10	\$40.00
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Without Metal Bracket

4351W	White	10	50	7	39.00
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WITH STARTER SOCKETS

For 2-Pin and 4-Pin Starters

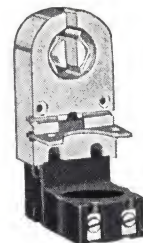
Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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With Metal Bracket

4367W	White	10	50	15	\$69.00
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Without Metal Bracket

4368W	White	10	50	14	68.00
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No. 4367-W

WITH REVERSE STARTER MOUNTING

For 2-Pin and 4-Pin Starters

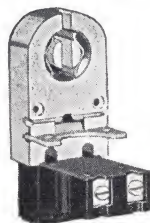
Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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With Metal Bracket

4364W	White	10	50	10	\$69.00
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Without Metal Bracket

4365W	White	10	50	10	68.00
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No. 4364-W

STARTER SOCKET

For Separate or Remote Mounting

For 2-Pin and 4-Pin Starters

Cat. No.	Descrip.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4369	Black	10	50	4	\$29.00



No. 4369

LAMP STARTERS

For Mogul Size Lamps
For 85, 90 and 100-Watt Lamps

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
FS85	10	50	3	\$85.00
"No-Blink"—2-Pin Type				
FS85NA	10	50	3	100.00
Manual Reset "No-Blink"				
4-Pin Type				
FS850	10	100	5	100.00



FS-85



FS-850

MIDGET LAMPHOLDER AND STARTER

For 4, 6 and 8 Watt Lamps—75 Watts, 250 Volts

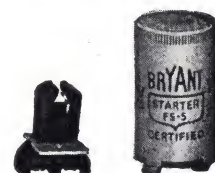
Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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Lampholders*

4330	10	100	2	\$25.40
4330W	10	100	2	27.40

Lamp Starter†

FS5	10	50	2	42.00
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No. 4330

No. FS-5

*Mounting hole centers 4-watt lamp, 5½ inches; 6-watt lamp, 8½ inches; 8-watt lamp, 11½ inches.

†Starter Sockets for No. FS5 starters are built into the ballast unit for these small lamps. Should a separate Starter Socket be desired No. 4309 may be used.

BRYANT WEATHERPROOF SOCKETS

N. E. C. Standard

BROWN COMPOSITION

660 Watts, 600 Volts



With groove for weatherproof shade holder. Main diameter, 1 1/2 inches; flange diameter 1 5/8 inches; length 2 inches. 4 1/2-inch wire leads.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
43310	10	100	21	\$34.00

BRYANT SOCKETS FOR MOGUL BASE LAMPS

N. E. C. Standard

1500 Watts, 600 Volts

PORCELAIN KEYLESS SOCKET BODIES

With Binding Screws

Diameter, 2 3/8 inches; length, 2 1/2 inches; screw spacings, 1 1/8 inches.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
4123	5	50	28	\$82.00



With 2-Piece Body

Main diameter 2 1/4 inches; length 3 3/8 inches; screw spacings 1 1/8 inches.

Assembling screws are waxed with compound that will not soften under heat.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
4077	5	50	41	\$84.00

**PORCELAIN KEYLESS SOCKET**

1500 Watts, 600 Volts

Body Only

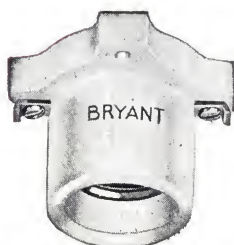
Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
4290	10	50	24	\$46.00



Diameter, 2 3/8 inches; length 2 5/8 inches.

PORCELAIN CLEAT RECEPTACLE

1500 Watts—250 Volts



Holes for supporting screws are spaced 2 7/8 inches on centers. Diameter over lugs 3 1/2 inches. Diameter of neck 2 1/4 inches. Diameter of main part of base is 2 5/8 inches. Height 2 1/8 inches. Carton, 5.

Cat. No.	Std. Pkg.	Wt. Lbs.	Price Per 100
4073	50	40	\$108.00

H & H WIRING DEVICES**MOGUL BASE DEVICES****ONE-PIECE INTERCHANGEABLE PORCELAIN BODIES**

1500 Watts, 600 Volts



No. 213



No. 214



No. 215

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
213	With Binding Posts.....	5	50	38	\$86.00
214	With Wire Leads*.....	5	50	44	.....
215	With Side Terminals.....	5	50	32	105.00

*15 inches No. 12 rubber covered wire.



PMA

Caps for Above Mogul Socket Bodies
Flat Steel, Brass Finish

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
PMA	3/8-Inch	10	50	8	\$46.00
PMC	1/2-Inch	10	50	7	48.00

BRYANT SHADE HOLDERS**UNO SHADE HOLDERS**

N. E. C. Standard

VENTILATED

With Screws to Hold Shade



Cat. No.	Size In.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
501	2 1/4	50	500	21	\$24.00
505	3 1/4	25	250	31	40.00
511	4	10	100	18	58.00

UNO FIXTURE RING

This ring is provided with the Uno thread and is used for attaching ornamental pieces to sockets.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
549	50	200	4	\$16.00

WEATHERPROOF SHADE-HOLDERS

These shade-holders may be used with any medium base porcelain or composition socket or receptacle which is provided with shade-holder grooves.

Clamp Shade-Holders

Cat. No.	Size In.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
628	2 1/4	25	250	15	\$26.00
629	3 1/4	10	100	10	34.00

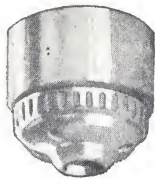
**COMPOSITION SOCKET BUSHINGS**

Cat. No.	Size In.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
990	1/8	100	1000	3	\$3.00
1490	3/8	100	1000	7	5.00

BRYANT PORCELAIN ROSETTES

N. E. C. Standard

CONCEALED



Outside diameter base, 2 $\frac{1}{2}$ inches. Height, 2 $\frac{1}{2}$ inches. Holes spaced 1 $\frac{1}{8}$ inches on centers.

With Fusible Cap—2 Amperes, 125 Volts					
Cat. No.	Car-ton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100	
*1502	10	100	43		\$48.00
With Fuseless Cap—660 W., 250 V.					
98	10	100	45		40.00

SOCKET REDUCERS

N. E. C. Standard

Cat. No.	Watts	Volts	Car-ton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
Mogul to Medium						
421	660	250	10	100	19	\$39.00
Medium to Intermediate						
9691	75	250	25	100	4	23.00
Medium to Candelabra						
392	75	125	25	100	6	27.00
Candelabra to Miniature						
391	75	125	20	100	1	18.00



No. 392



No. 391

BRYANT ATTACHMENT PLUG CAPS

N.E.C. Standard

STANDARD AND SPECIAL CAPS

15 Amp., 125 Volts; 10 Amp., 250 Volts



Steel Armored—Cadmium Plated
With Cord Grip

Composition cap with $\frac{1}{8}$ -inch cord hole.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
JX	10	50	6	\$43.00

Composition Caps with Armored Cord Grip

Composition cap with steel cord grip.

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
JK	$\frac{7}{8}$	10	50	7	\$40.00
JM	$\frac{1}{2}$	10	50	7	40.00



Right Angle Blade Polarity Caps Composition



Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
MA	$\frac{1}{2}$	10	30	2	\$27.00

Armored, Cord Grip					
MX	$\frac{1}{8}$	10	30	4	46.00

RUBBER HANDLE CAPS

15 Amp., 125 Volts; 10 Amp., 250 Volts

Rubber Caps—Short Shank

Cat. No.	Type	Cord Hole	Pkg. Wt.	Price Per 100
HRA	2 Piece	.312-.390	7	\$21.00
HRB	2 Piece	.240-.312	7	21.00
HRS	2 Piece	.578	7	21.00



Standard package, 100; carton, 25.

Rubber Caps—Long Shank



Cat. No.	Type	Cord Hole	Pkg. Wt.	Price Per 100
HRE	2-Piece	.312-.390	8	\$23.00
HRF	2 Piece	.260-.312	8	23.00

Standard package, 100; carton, 25.

BRYANT ATTACHMENT PLUGS

COMPOSITION ATTACHMENT PLUG



Weatherproof

660 Watts, 600 Volts

In one piece. Has $\frac{1}{2}$ -inch No. 14 stranded leads.

Cat. No.	Car-ton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
345	10	250	44	\$56.00

BRYANT CONNECTING DEVICES

N. E. C. Standard

Composition Screw Body

660 Watts, 250 Volts

Large composition. Does not have tandem slots.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
100	10	250	19	\$22.00



Bakelite Screw Body

660 Watts, 250 Volts



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
706	25	500	19	\$14.00

Bakelite Cord Connector Body

15 Amp., 125 Volts—10 Amp., 250 Volts

Diameter 1 $\frac{3}{8}$ inches; $\frac{1}{8}$ -inch cord hole.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
130	10	50	3	\$27.00



Composition Cord Connector Body

15 Amp., 125 Volts—10 Amp., 250 Volts

Diameter 1 $\frac{3}{8}$ inches; length 1 $\frac{3}{4}$ inches. $\frac{1}{8}$ -inch cord hole.



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
103	10	50	7	\$49.00

Armored Cord Connector Body

With steel armored cadmium plated cord grip. $\frac{1}{8}$ -inch cord hole. Body is of black composition.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
5103	10	50	9	\$76.00



BRYANT PORCELAIN RECEPTACLES

N. E. C. Standard

PORCELAIN PLUG RECEPTACLES

15 Amp., 125 Volts; 10 Amp., 250 Volts

Concealed Base Receptacle

Diameter of base is 2 $\frac{3}{4}$ inches. Height, 1 $\frac{1}{8}$ inches. Screw spacings, 1 $\frac{1}{2}$ inches.

Cat. No.	Car-ton	Std. Pkg.	Wt.Lbs. Std.Pkg.	Price Per 100
105	10	50	15	\$62.00



Convenience Outlet to Medium Base Composition Adapter

660 Watts, 250 Volts

Standard Convenience Outlet to Medium Base composition adapter. Diameter, 1 $\frac{3}{8}$ inches. Length, 1 $\frac{1}{2}$ inches.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
KL	10	50	7	\$46.00

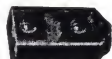


BRYANT CORD CONNECTORS

N. E. C. Standard

FLAT CORD CONNECTORS

10 Amp., 125 Volts—5 Amp., 250 Volts



No. 2956



No. 2958

Black bakelite. Cord holes, .281 ($\frac{1}{32}$) inch.

Cat. No.	Description	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
2956	Receptacle Only	10	100	4	\$36.00
2958	Plug Only	10	100	5	36.00

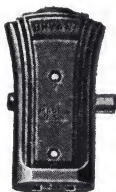
PENDENT SWITCH AND OUTLET

6 Amp., 125 Volts—3 Amp., 250 Volts

Made of brown bakelite.

Three-Wire

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
9081	10	50	9	\$90.00

**HEMCO CORD SWITCH**

6 Amp., 125 Volts—3 Amp., 250 Volts



Modernistic design, body of brown bakelite, straight-through feed. Milled edge indicating red switch handle.

Cat. No.	Description	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
271	Single Pole	10	50	5	\$64.00

FEED-THROUGH CORD SWITCH

Rocker Handle—Black Casing

10 Amp., 125 Volts—5 Amp., 250 Volts

Furnished with knob for use as pendant switch.

Cat. No.	Cord Holes	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
2880	$\frac{1}{32}$	10	50	5	\$65.00

**HEMCO WIRING DEVICES**

N. E. C. Standard

CUBE TAPS—BAKELITE

15 Amp., 125 Volts; 10 Amp., 250 Volts



No. H207



No. H17



No. H18

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
207	Brown Bakelite	10	100	10	\$40.00
17	Brown, with Prongs	20	100	9	23.00
18	Brown, for Cord	20	100	9	24.00

Cord hole, .250x.281 ($\frac{1}{4} \times \frac{1}{32}$) inch.**BRYANT FLUSH CONVENIENCE OUTLETS**

N. E. C. Standard

STANDARD TYPES

15 Amp., 125 Volts—10 Amp., 250 Volts

"T" SLOTS—DOUBLE-SIDED CONTACTS

Side Wiring

All bakelite; wide yoke. Four terminal screws.



Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4832	Brown	10	100	22	\$39.00
4832-I	Ivory	10	50	11	46.00

FOR TWO-CIRCUIT INSTALLATIONS

For Switch Control of One Outlet

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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Two Feeds—Two Returns

4832-X	Brown	10	100	22	\$50.00
4832-XI	Ivory	10	50	11	57.00

Two Feeds—One Return

4832-Y	Brown	10	100	22	50.00
4832-YI	Ivory	10	50	11	57.00



No. 4832-X

POLARIZED—2-WIRE

Double-Sided Contacts

Four terminal screws.



Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4833	Brown	10	30	7	\$98.00

TWIST-TITE—GRIP CONTACTS

Side Wiring

Use standard caps. Plug in straight for normal tension. Twist cap to right for maximum tension. To withdraw, twist to the left.



Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
9200	Brown	10	100	25	\$60.00

"T" SLOTS

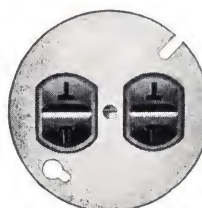
Perma satin cadmium finish metal cover.

Single

Cat. No.	Box Size	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3780	$3\frac{1}{4}$	10	50	17	\$44.00
4780	4	10	50	22	49.00

Duplex

3781	$3\frac{1}{2}$	10	50	17	51.00
4782	4	10	50	21	56.00

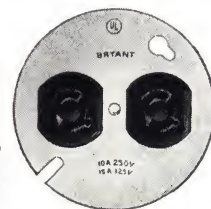


No. 3781

TWIST-TITE—GRIP CONTACT

With cadmium finished covers.

Cat. No.	Box Size	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
9205	$3\frac{1}{4}$	10	50	20	\$65.00
9206	4	5	50	25	67.00



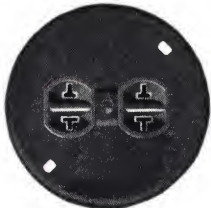
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BRYANT DEVICES FOR INSULATED SYSTEMS

N. E. C. Standard

BOX-MOUNTING CONVENIENCE OUTLETS

15 Amp., 125 Volts—10 Amp., 250 Volts



No. 5706

BAKELITE COVERS

"T" Slots

Cat. No.	Box Size	Car-ton	Std. Pkg.	Wt.	Price Per 100
5706	3 1/4	10	50	15	\$69.00
5707	4	10	50	16	76.00

Parallel Slots

5732	3 1/4	10	50	15	61.00
5712	4	10	50	16	67.00

TUMBLER SWITCHES ON BAKELITE COVERS

"T" Rated

10 Amps., 125 Volts; 5 Amps., 250 Volts

Single-Pole

Cat. No.	Box Size	Car-ton	Std. Pkg.	Wt.	Price Per 100
5831	3 1/2	10	50	13	\$86.00
5841	4	10	50	18	95.00

Three-Way

5833	3 1/4	10	50	13	97.00
5843	4	10	50	18	106.00



BRYANT FLUSH RECEPTACLES

N.E.C. Standard

SWITCH AND OUTLET COMBINATIONS

Outlet Ratings: 15 A., 125 V.; 10 A., 250 V.

VERTICAL OPERATION



With Brass Plate

Single-Pole—"T" Rated

Cat. No.	Amperes	125V.	250V.	Car-ton	Std. Pkg.	Wt.	Price Per 100
4990	10	10	2	10	6		\$263.00

Double-Pole

2994	10	10	2	10	6		263.00
2995	20	20	2	10	6		270.00

With Bakelite Plate

Single-Pole—"T" Rated

Cat. No.	Amperes	125V.	250V.	Car-ton	Std. Pkg.	Wt.	Price Per 100
4991	10	10	2	10	5		\$248.00

Double Pole Switch

2989	10	10	2	10	5		248.00
2999	20	20	2	10	5		255.00



SWITCH, OUTLET, AND PILOT

2-Gang—Double Pole

Outlet: 15 A., 125 V.; 10 A., 250 V.
Switch: 20 A., 125 V.; 20 A., 250 V.



Polished Chromium

Cat. No.	Car-ton	Std. Pkg.	Wt.	Price Per 100
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Combination with .040" Plate

55350	2	10	12	\$550.00
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Combination Less Plate

55352	2	10	9	353.00
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.040-inch Polished Plate Only

55354	2	10	3	197.00
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BRYANT DOOR SWITCHES

N. E. C. Standard

6 Amp., 125 Volts — 3 Amp., 250 Volts

WITH OUTLET BOX

Furnished with box and round strike plate. Adjustable plunger. Plate, 4 7/8 x 1 3/8 inches.

Box dimensions: 3 1/8 x 1 1/4 x 2 5/8 inches.



"On" When Door is Open

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
2355	2	25	30	\$451.00

"Off" When Door is Open

2356	2	10	12	451.00
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WITH METAL BOX

Consists of galvanized metal box with 1/2-inch knockouts in both ends and bottom, cover, striking plate and necessary screws. Box, 2 1/8 x 1 3/8 x 1 1/2 inches deep. Cover 1 1/2 x 4 inches. Switch equipped with No. 18 wire leads and adjustable plunger.



"On" When Door is Open

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
2968	10	100	56	\$212.00

"Off" When Door is Open

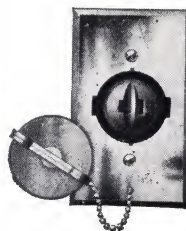
2969	10	100	56	212.00
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BRYANT WEATHERPROOF OUTLETS

N. E. C. Standard

WITH QUICK-CLAMP COVER

15 Amp., 125 Volts; 10 Amp., 250 Volts



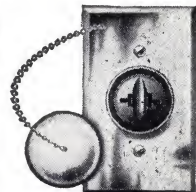
Weather protected by a gasket which fits between mounting surface and plate. The plate and cover are made of brass, cadmium finished.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
3880	10	30	9	\$156.00

WEATHERPROOF FLUSH OUTLETS

15 Amp., 125 Volts; 10 Amp., 250 Volts

A permanent weatherproof convenience outlet for plugging in outdoor lighting connections or appliances.



2-Wire Receptacle

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
3795	2	10	6	\$230.00

WEATHERPROOF OUTLET

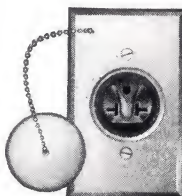
15 Amperes, 125 Volts

Provides a permanent weatherproof convenience outlet for outdoor installation.

Thread-on Cover

Three Wire

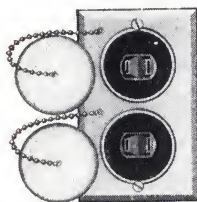
Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
5260	2	10	6	\$314.00



For use with 3-wire grounding type caps.

BRYANT WEATHERPROOF OUTLETS

DUPLEX CONVENIENCE OUTLET



15 Amp., 125 Volts
10 Amp., 250 Volts
Parallel slot duplex with double side contacts. Recommended for outdoor use.

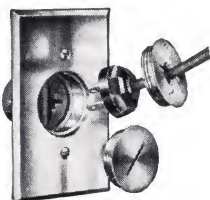
2-Wire

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3894	2	10	7	\$315.00

BRYANT FLOOR OUTLET

15 Amp., 125 Volts; 10 Amp., 250 Volts

To plug in lamps or appliances without the nuisance of running long cords from the wall.



.060-Inch Brass Plate

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
3799	2	10	7	\$286.00

BRYANT RADIO OUTLETS

N. E. C. Standard

15 Amperes, 125 Volts; 10 Amperes, 250 Volts



DUPLEX OUTLET

Radio and Power connections. Divider plate separates aerial and ground from the power connections. Divider plate fits 1½, 2, and 2½-inch boxes.

Cat. No.	Finish	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3789	Brown	2	10	3	\$116.00
3789-I	Ivory	2	10	3	124.00

RADIO CAPS

For Nos. 22149 and 3789. Cord hole, .281x.375 (3/8x3/8"). One blade set at an angle to prevent insertion in power outlet.



Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3790	Brown.....	2	10	1	\$17.00
3790-I	Ivory.....	2	10	1	22.00

BRYANT FLUSH RECEPTACLES

N.E.C. Standard

ROUND PORCELAIN RECEPTACLES

15 Amp., 125 Volts; 10 Amp., 250 Volts

With solid brass plate.



Cat. No.	Diam. Plate	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
115	2 1/2	2	50	10	\$120.00

Body diameter, 1 1/2 inches; screw spacing, 1 1/8 inches.

SCREW PLUG FLUSH RECEPTACLE

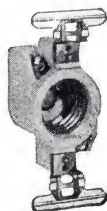
660 Watts, 250 Volts

Single—Porcelain Cup

Listed as standard by Underwriters Laboratories for use as a lamp-holder only.

Length porcelain cup, 2 1/8 inches; width, 1 1/2 inches; depth, 1 1/2 inches. Supporting screw spacings, 3 3/4 inches.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
1708	10	100	28	\$50.00



BRYANT TWIST-LOCK DEVICES

N. E. C. Standard

2-WIRE — MIDGET TYPE

15 Amp., 125 Volts; 10 Amp., 250 Volts

For small appliances and equipment. Made of brown bakelite.

CAPS

Without Cord Grip

Cable diameter .375 inch.



No. 7462

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7462	10	50	1	\$24.00

Polarized

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7477	10	50	1	30.00

With Cord Grip

Cable diameter .218 to .312 inch.

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7465	10	50	1	\$31.00

Polarized

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7479	10	50	1	37.00



No. 7465

Diam. 1 inch. Height of bakelite body—1/2 inch.

CONNECTOR BODIES

Without Cord Grip

Cable diameter .375 inch.



No. 7461

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7461	10	50	2	\$48.00

With Cord Grip

Cable diameter .218 to .312 inch.

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7464	10	50	3	\$55.00

Diameter — 1 inch.

Length Bakelite body — 1 1/8 inches.



No. 7464

CONNECTOR BASES

With Mounting Cup



No. 7466

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7466	10	50	3	\$66.00
7467	10	50	3	80.00

2-WIRE — 20 Amp., 250 Volts

2-Wire Outlet

Flush Outlet

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7210	10	50	5	\$72.00

Outlet Box Receptacle

With 3/4-Inch Cover

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7216	10	50	5	84.00

With 4-Inch Cover

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7217	5	30	5	90.00



No. 7210



No. 7216

2-Wire Composition Cap

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7062	1/2	10	50	7	\$48.00



No. 7062

BRYANT TWIST-LOCK DEVICES

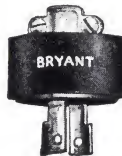
N. E. C. Standard



No. 7102

2-Wire Armored Covered Cord Grip Caps

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7102	$\frac{9}{16}$	10	30	5	\$60.00
7238	$\frac{5}{8}$	10	30	5	60.00



No. 9763

2-Wire Rubber Cord Grip Cap

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
9763	$\frac{9}{16}$	10	30	5	\$60.00



No. 7101

2-Wire Connector Bodies

Armored cord grip body.

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7101	$\frac{9}{16}$	10	30	9	\$95.00
7224	$\frac{5}{8}$	10	30	9	95.00

POLARIZED CONNECTORS

N.E.C. Standard

Composition Flush Receptacle

Length $2\frac{5}{16}$ inches; width $1\frac{3}{16}$ inches; depth $\frac{3}{8}$ inches. Supporting screw spacing, $3\frac{3}{8}$ inches.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
556	10	30	9	\$122.00



20-AMPERE CAPS — POLARIZED



2-Wire—Composition Plug

With $\frac{1}{8}$ -inch cord hole.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
652	10	30	6	\$62.00

Armored—With Cord Grip

20 Amperes, 250 Volts

No. 723 is for $\frac{3}{8}$ -inch to $\frac{1}{2}$ -inch diameter cord.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
723	10	30	6	\$96.00



2-WIRE 30-AMP. POLARIZED RECEPTACLES



FLUSH RECEPTACLE

Composition boss, porcelain body. Length, $2\frac{1}{2}$ inches; width, $1\frac{1}{2}$ inches; depth, $1\frac{1}{8}$ inches.

Requires No. 7439 plate. Fits single gang box. Two No. 7438 require three-gang box.

Cat. No.	Rating Amp.	Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7438	30	250	10	30	16	\$164.00
7439	----	----	10	30	6	44.00

.040 Brass Plate

POLARIZED CONNECTORS

N. E. C. Standard

3-WIRE POLARIZED CAPS

15 Amp., 125 Volts; 10 Amp., 250 Volts

Composition Cap—With Armored Cord Grip



Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
9112	$\frac{3}{8}$ to $\frac{1}{2}$	10	50	8	\$65.00
7055	$\frac{19}{32}$ to $\frac{1}{4}$	10	50	8	71.00

Fully Armored

COMPOSITION CAP

30 Amp., 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7437	5	30	15	\$87.00

Cord hole, .656 ($\frac{3}{16}$) inch.



3-WIRE POLARIZED CAPS

15 Amp., 125 Volts; 10 Amp., 250 Volts

Brown Bakelite Cap



Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
9110	$\frac{3}{8}$	10	50	4	\$41.00

Black Composition Cap

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
9111	$\frac{3}{8}$	10	50	6	41.00

3-WIRE POLARIZED CORD CONNECTORS

15 Amp., 125 Volts; 10 Amp., 250 Volts

Composition Cord Connector Bodies

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
9113	$\frac{3}{8}$	10	50	9	\$86.00

With Armored Cord Grip

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
9114	$\frac{3}{8}$ to $\frac{1}{2}$	10	50	12	110.00



No. 9113

3-WIRE POLARIZED RECEPTACLES

15 Amp., 125 Volts; 10 Amp., 250 Volts

Composition Flush Receptacles

Bases are $2\frac{1}{2} \times 1\frac{1}{8}$ inches; depth $\frac{3}{8}$ inch; supporting screw spacing, $3\frac{3}{8}$ inches. Top wiring terminals. Take standard single outlet plates.



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
9116	10	50	15	\$138.00

Grounding Terminal Connected to Yoke

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
9120	10	50	15	138.00

Duplex—Flush Mounting

Takes standard plates.

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4326	10	30	8	\$192.00

Grounded Yoke

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4327	10	30	8	192.00



No. 4326

BRYANT TWIST-LOCK DEVICES

N. E. C. Standard

3-WIRE — POLARIZED

15 Amp., 125 Volts — 10 Amp., 250 Volts



No. 7580

3-Wire Receptacles

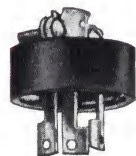
Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7582	Single	10	50	9	\$155.00
7580	Duplex	10	50	11	225.00

3-Wire Bakelite Cord Grip Caps

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7554	$\frac{9}{16}$	10	50	6	\$84.00
7558	$\frac{5}{8}$	10	50	6	84.00



No. 7554



No. 7567

3-Wire Rubber Cord Grip Caps

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7567	$\frac{9}{16}$	10	50	6	\$104.00
7568	$\frac{5}{8}$	10	50	6	104.00

3-Wire Connector Bodies

Bakelite Cord Grip Body

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7555	$\frac{9}{16}$	10	50	8	\$143.00
7559	$\frac{5}{8}$	10	50	8	143.00



No. 7555



No. 7556

3-Wire Connector Base
Screw spacing, $1\frac{1}{8}$ inches.

Bakelite Motor Base in Casing

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7556	10	50	5	\$107.00

3-Wire Connector Base

Screw spacing, $1\frac{1}{8}$ inches.

Bakelite Flush Base

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7557	10	50	7	\$119.00

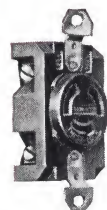


No. 7557

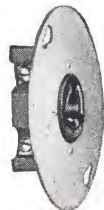
3-WIRE POLARIZED

20 Amp., 250 Volts — 10 Amp., 575 Volts, A.C.

3-Wire Porcelain Receptacles



No. 7310



No. 7517

Twist Lock receptacles take single outlet plates.

Flush Receptacle				
Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7310	10	30		\$180.00
Grounded				
7310G	10	30		180.00
With 4-Inch Cover				
7517	5	20		200.00

BRYANT TWIST-LOCK DEVICES

N. E. C. Standard

3-WIRE — POLARIZED

20 Amp., 250 Volts — 10 Amp., 575 Volts A.C.

3-Wire Armored Cord Grip Caps

Cat. No.	Cord Hole	Std. Pkg.	Pkg. Wt.	Price Per 100
7311	.437 to .750	30	8	\$130.00

Grounded

7311G	.437 to .750	30	8	130.00
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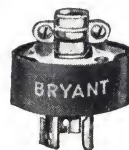
Carton, 10.



3-Wire Rubber Cord Grip Cap

Cat. No.	Cord Hole	Std. Pkg.	Pkg. Wt.	Price Per 100
9965	.437 to .750	30	8	\$130.00

Carton, 10.



3-Wire Connector Body

Armored Cord Grip Body

Cat. No.	Cord Hole	Std. Pkg.	Pkg. Wt.	Price Per 100
7313	.437 to .750	30	11	\$200.00

Carton, 10.



3-Wire Connector Base

Three mounting screw holes
120 degrees apart on $1\frac{1}{4}$ -inch
radius.

Motor Base in Casing

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7327	10	30	13	\$107.00



4-WIRE POLARIZED

20 Amp., 250 Volts; 10 Amp., 575 Volts A.C.

4-Wire Porcelain Receptacles
Screw spacing, $3\frac{3}{8}$ inches.

Flush Receptacle				
Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7410	10	20	9	\$226.00
With 4-Inch Cadmium Plated Cover				
7417	5	15	10	238.00
1-Gang .060-Inch Plate for 7410				
7421	10	20	6	65.00



4-Wire Caps

Armored Cord Grip Cap

Cat. No.	Cord Hole	Std. Pkg.	Pkg. Wt.	Price Per 100
7411	.437 to .750	20	8	\$180.00

Rubber Cord Grip Cap

9967	$\frac{7}{16}$ to $\frac{3}{4}$	20	9	178.00
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Carton, 10.



4-Wire Connector Body

Armored Cord Grip Body

Cat. No.	Cord Hole	Std. Pkg.	Pkg. Wt.	Price Per 100
7413	.437 to .750	20	11	\$250.00

Carton, 10.



4-Wire Connector Base

Four mounting screw holes
spaced 90 degrees on $2\frac{3}{8}$ -inch
centers.

Motor Base in Casing

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
7408	10	20	10	\$130.00



POLARIZED CONNECTORS

N.E.C. Standard

3-WIRE POLARIZED OUTLETS

20 Amp., 250 Volts



Base is $2\frac{1}{8} \times 1\frac{1}{8}$ inches; depth $1\frac{1}{2}$ inches. Supporting screw spacing, $3\frac{3}{4}$ inches. Takes standard single outlet plate.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
9326	10	30	12	\$153.00

With Grounded Yoke

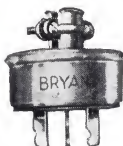
9326G	10	30	12	153.00
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3-WIRE POLARIZED CAP

20 Amperes, 250 Volts

Armored with cord grip.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
9322	10	20	4	\$123.00



3-WIRE POLARIZED CONNECTOR

20 Amperes, 250 Volts

Composition, armored metal covered, $\frac{3}{8}$ to $\frac{1}{2}$ inch cord hole.



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
9323	10	20	8	\$182.00

3-WIRE BOX MOUNTING OUTLET

20 Amperes, 250 Volts

With cadmium plated cover for 4-inch outlet boxes.

Cat. No.	Car-ton	Std. Pkg.	Wt. Price Per 100
9324	5	30	22 \$170.00



4-WIRE POLARIZED OUTLETS

20 Amperes, 250 Volts

Flush Composition



Cat. No.	Car-ton	Std. Pkg.	Wt. Price Per 100
7250	10	20	8 \$190.00
7250-G*	10	20	8 190.00

*Grounded.

Takes standard plates—two need 3 gang box. Use 7502 plate.

No. 7250

4-WIRE POLARIZED CAPS

CORD GRIP CAPS

20 Amperes, 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Wt. Price Per 100
7251	10	20	6 \$147.00
9251	10	20	6 162.00

Cord grip .437 to .750.



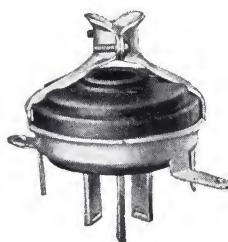
No. 7251

POLARIZED RECEPTACLES AND PLUGS

N.E.C. Standard

3-WIRE POLARIZED CAPS

30 Amperes, 250 Volts



COMPOSITION CAP

With Grounding Prongs and Cord Grip

Cat. No.	Cord Hole	Car-ton	Std. Pkg.	Wt. Price Per 100
786	$\frac{3}{4}$	2	10	10 \$180.00

No. 786 is equipped with ears for permanently attaching cap to the plate, also for ground connection. Ears can be removed if not required.

3-WIRE HEAVY DUTY RECEPTACLES

50 Amp., 250 Volts

Surface Receptacles with Solder Lugs

Fit G-E No. SP72C102 cover for $4\frac{1}{8}$ -inch square box.

Porcelain

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
747	5	10	11	\$159.00

Composition

787	5	10	7	193.00
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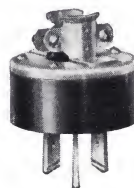
3-WIRE HEAVY DUTY CAP

50 Amperes, 250 Volts

Cord Grip Type With Solder Lugs

Cat. No.	Car-ton	Std. Pkg.	Wt. Price Per 100
7513	2	5	5 \$220.00

Cord grip, .875 to 1.218 ($\frac{5}{8}$ to $1\frac{1}{2}$) inches.



ADVISE US OF YOUR
ELECTRICAL REQUIREMENTS.

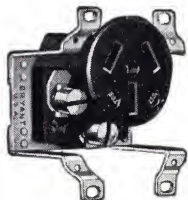
WE WANT TO BE OF
ALL POSSIBLE SERVICE.

RANGE OUTLET RECEPTACLE AND FITTINGS

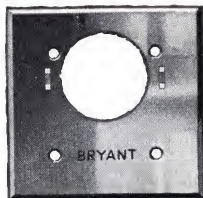
N.E.C. Standard

3-WIRE FLUSH POLARIZED RANGE RECEPTACLE

50 Amperes, 250 Volts



No. 3845



No. 3844

Designed for mounting in standard 4-inch square box (Universal catalog number 52151-S box with 3/4-inch knockouts and 52C18 cover) and standard 4 1/8-inch square box (Universal No. 72171-1 with No. 72C18 cover). Receptacle is bakelite with brass plate. Straight-in wiring and solderless terminals make installation easy. Plates listed, brush brass finish.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3845	Receptacle only	2	10	7	\$320.00
3846	Receptacle with .040-inch plate	2	10	10	410.00
	Without Grounding Prongs				
3844	.040-inch plate only.....	2	10	....	90.00
	With Grounding Prongs				
3847	.040-inch plate only.....	2	10	3	110.00

3-WIRE POLARIZED RANGE CONNECTORS



No. 3826



No. 3827



No. 3833



No. 3898



No. 3829

All-rubber and armored 3-wire cord sets. 3-wire range receptacle; high heat black composition. Opening for 3/4-inch conduit, knockout for 1-inch conduit. Range grounding strap readily attached. Tube and connector clamp to protect grip non-metallic cable when it passes through floor. Cap and lug joints proof against loosening.

No. 3833 range cap, bakelite cover, grounding prongs, clamp for 3 conductor armored or rubber covered cable.

3-Wire Surface Range Receptacle					
Cat. No.	Amperes	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
3826	250 Volts	2	10	11	\$195.00
	Grounding Strap for No. 3826				
3827	....	2	10	....	58.00
	Rubber 3-Wire Cord Set with Bakelite Cap				
3898	36 Inches Long, 2 No. 8 and 1 No. 10 Conductors	35	2	10	242.00
	Rubber 3-Wire Cord Set with Bakelite Cap				
3899	36 Inches Long, 2 No. 6 and 1 No. 8 Conductors	50	2	10	280.00
	Rubber 3-Wire Cord Set with Cap				
3829	36 Inches Long, 2 No. 8 and 1 No. 10 Conductors	35	2	10	230.00
	Rubber 3-Wire Cord Set with Cap				
3830	36 Inches Long, 2 No. 6 and 1 No. 8 Conductors	50	2	10	260.00
	3-Wire Range Cap				
3833	50	2	10	12	270.00

BRYANT PIN TYPE OUTLETS

N. E. C. Standard

BRASS COVERED COMPOSITION CAP



With 1/8 inch cord hole.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
JB	5	25	1	\$80.00

PORCELAIN FLUSH RECEPTACLE

12 Amperes, 125 Volts

6 Amperes, 250 Volts

Screw spacings 3 3/8 inches. Suitable screws are furnished for mounting this device on box. For use with No. 96621 plates.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
411	5	25	2	\$80.00



BRASS PLATES FOR NO. 411 OUTLET

The standard finish is brush brass. Plate measures 4 1/2 x 2 3/4 in.

Cat. No.	Thick. Inches	Car-ton	Std. Pkg.	Wt.	Price Per 100
96621	.060	10	25	7	\$77.00



BRYANT FLUSH TUMBLER SWITCHES

N. E. C. Standard

SIDE WIRED

"T" Rating

10 Amp., 125T Volts; 5 Amp., 250 Volts

Mechanism totally enclosed in bakelite. Side wiring. Cups: 1 3/8 inches long, 3/8-inch wide, 1 3/8 inches deep.

Single-Pole					
Cat. No.	Handle	Car-ton	Std. Pkg.	Wt.	Price Per 100
61	Brown.....	10	100	10	\$42.00
61-I	Ivory.....	10	100	16	46.00

Three-Way

63	Brown	....	10	50	9	57.00
63-I	Ivory	....	10	50	9	61.00



TOP WIRED

10 Amp., 125 Volts; 5 Amp., 250 Volts

Porcelain cups: 2 1/8 inches long, 1 1/2 inches wide, 1 3/8 inches deep.



Single-Pole					
Cat. No.	Handle	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
51	Brown	.... 10	100	23	\$27.00
51-I	Ivory	..... 10	100	23	31.00

Three-Way

53	Brown	....	10	50	13	38.00
53-I	Ivory	....	10	50	13	42.00

WITH NARROW YOKE

10 Amp., 125 Volts; 5 Amp., 250 Volts

Single Pole

Cat. No.	Handle	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
51-E	Brown	10	100	22	\$25.00
51-EI	Ivory	10	100	22	29.00

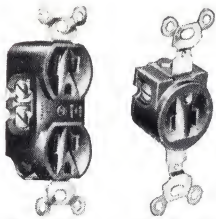
Three Way

53-E	Brown	....	10	50	12	36.00
53-EI	Ivory	....	10	50	12	40.00



BRYANT GROUNDING DEVICES

GROUNDING TYPE CONVENIENCE OUTLETS 15 Amperes, 125 Volts



No. 5262 No. 5261

These 3-wire outlets have two current carrying contacts and one grounding contact built into the device. The grounding contact is electrically connected to the yoke and also to a terminal on the side of the outlet to which a grounding conductor may be connected.

In metallic system wiring, the grounding is made directly through the metal enclosure. For non-metallic systems, the grounding is completed through a third wire serving as a grounding conductor.

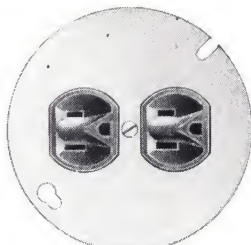
When desired these outlets can be used in the conventional manner to accommodate standard 2-pole parallel blade caps.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
5262	Duplex, Brown	10	50	12	\$192.00
5262-I	Duplex, Ivory	10	50	12	202.00
5261	Single, Brown	10	50	11	138.00

BOX MOUNTING OUTLETS

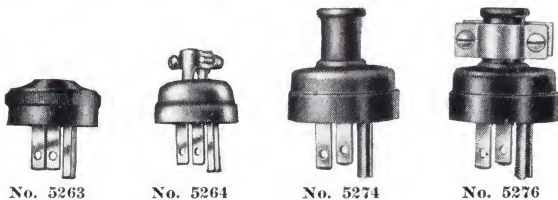
These outlets are furnished on 4-inch Perma cadmium plated covers.

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
5282	10	50	24	\$210.00
5281	10	50	22	155.00



No. 5282

3-WIRE CAPS WITH GROUNDING BLADE



No. 5263 No. 5264 No. 5274 No. 5276

These 3-wire caps are provided with a grounding blade so designed that it cannot engage with the current carrying contacts and, being longer, the grounding connection is made before the current carrying blades make contact.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
5263	Brown Bakelite	10	50	4	\$41.00
5263-I	Ivory Bakelite	10	50	4	45.00
Armored with Cord Grip					
5264	For .296 to .562 inch cord ($\frac{1}{8}$ to $\frac{3}{16}$)	10	50	5	71.00
5265	For .406 to .625 inch cord ($\frac{1}{4}$ to $\frac{5}{16}$)	10	50	5	71.00
Black Rubber					
5274	Cord hole .312 to .468-in. ($\frac{1}{8}$ to $\frac{1}{4}$)	10	50	7	42.00
Black Rubber with Cord Grip					
5276	Cord hole .312 to .468-in. ($\frac{1}{8}$ to $\frac{1}{4}$)	10	50	11	51.00

BRYANT GROUNDING DEVICES

GROUNDING TYPE 3-WIRE CORD CONNECTOR BODIES

15 Amperes, 125 Volts



No. 5269

Brown bakelite with Armored Cord Grip. No. 5269 is for .296 to .562 inch ($\frac{1}{8}$ to $\frac{3}{16}$) cord. No. 5270 is for .406 to .625 inch cord ($\frac{1}{4}$ to $\frac{5}{16}$).

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
5269	10	50	10	\$110.00
5270	10	50	10	110.00

BRYANT TWO-BUTTON FLUSH PUSH SWITCHES

N. E. C. Standard

PUSH BUTTON SWITCHES WITH PLASTER EARS

Extremely shallow switch for use in thin partitions. Porcelain cups are $2\frac{5}{16}$ inches long, $1\frac{1}{4}$ inches deep. Nos. 5501 and 5501-L are $1\frac{1}{8}$ inches wide. Other switches are $1\frac{1}{4}$ inches wide. Supporting screw spacing, $3\frac{1}{2}$ inches.



Single-Pole

Cat. No.	Amperes		Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100	Lock Switches	
	125 Volts	250 Volts					Cat. No.	Price Per 100
5501	10	5	10	100	34	\$72.00	5501L	\$146.00

Double-Pole

5502	10	10	10	50	19	140.00	5502L	220.00
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Three-Way

5503	10	5	10	50	19	96.00	5503L	164.00
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Four-Way

5504	5	2	2	10	4	386.00	5540L	454.00
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BRYANT WEATHERPROOF SWITCHES

N. E. C. Standard

FOR OUTLET BOXES



No. 4421

For installations exposed to weather and dampness as on porches, garages, industrial plants, etc.

Provided with weatherproof mat and plate. Depth of cup, $1\frac{3}{8}$ inches.

Cat. No.	Description	Amperes		Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
		125V	250V				
4421	Single-pole	10	5	2	10	7	\$210.00
4423	Three-way	10	5	2	10	7	233.00
4422	Double-pole	10	10	2	10	7	263.00
4424	Four-way	5	2	1	5	3	479.00

BRYANT FLUSH TUMBLER SWITCHES

N.E.C. Standard

SIDE WIRED

10 Amp., 125 Volts; 5 Amp., 250 Volts

Bakelite cups: $1\frac{1}{8} \times 1\frac{1}{4} \times 1\frac{3}{8}$ inches.
Totally enclosed mechanism.

No. 151

Single Pole

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
151	Brown	10	100	16	\$27.00
151-I	Ivory	10	100	16	31.00

Three Way

153	Brown	10	50	9	38.00
153-I	Ivory	10	50	9	42.00

TOP WIRED

10 Amp., 125 Volts; 5 Amp., 250 Volts

Bakelite cups: $\frac{7}{8} \times 1\frac{1}{2} \times 1\frac{1}{8}$ inches.
Totally enclosed mechanism.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1815-D	Brown	10	100	17	\$54.00
1915-D	Ivory	10	50	10	58.00

Three Way

1835-D	Brown	10	50	9	74.00
1935-D	Ivory	10	30	7	78.00



No. 1815-D

20-AMPERE SHALLOW FLUSH SWITCHES

1 $\frac{1}{2}$ Inches Deep — "T" Rated

20-Amp., 125-Volt; 20-Amp., 250-Volt
Simplified mechanism insures trouble-free service. Unbreakable plastic handle is made of material especially developed to resist abuse; choice of brown or ivory. Equipped with large binding screws, recessed to facilitate wrapping of wire.

Fully enclosed in bakelite casing with extra thick walls. One-piece design yoke, with plaster ears, completely insulated from mechanism.

Fully Approved — U. L. "T" rated. Conforms with Federal Specifications. A compact "T" rated 20-ampere switch.



No. 5861

Single-Pole

Cat. No.	Description	Price Per 100
5861	Brown handle	\$170.00
5861-I	Ivory handle	180.00
5861-L	Lock type	244.00
5861-M	Momentary Contact	283.00

Carton, 10; standard package, 30;
package weight, 12 pounds.

Double-Pole

Cat. No.	Description	Price Per 100
5862	Brown handle	\$185.00
5862-I	Ivory handle	195.00
5862-L	Lock type	267.00
5862-M	Momentary Contact	306.00

Carton, 2; standard package, 10;
package weight, 4 pounds.



No. 5863

Three-Way

Cat. No.	Description	Price Per 100
5863	Brown handle	\$193.00
5863-I	Ivory handle	203.00
5863-L	Lock type	267.00
5863-M	Momentary Control	306.00

Carton, 2; standard package, 10;
package weight, 4 pounds.



No. 5862

BRYANT FLUSH TUMBLER SWITCHES

N. E. C. Standard

MERCURY SILENT FLUSH SWITCHES

"T" Rating

10 Amp., 125 Volts; 5 Amp., 250 Volts

Brown Handle



No. 4701

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4701	Single-pole	10	100	21	\$90.00
4702	Double-pole	10	50	14	170.00
4703	Three-way	10	50	14	170.00
4704	Four-way	2	10	3	350.00

Ivory Handle

4701-I	Single-pole	10	50	11	100.00
4702-I	Double-pole	10	30	9	180.00
4703-I	Three-way	10	30	9	180.00
4704-I	Four-way	2	10	3	360.00

GENERAL-PURPOSE TYPE

With Porcelain Cups—"T" Rating

Prices are for Brown handles.

Extra features at additional cost for this line are: Ivory Handles, Lock Type and Momentary Contact Type.



No. 3951

Cat. No.	(Amperes) 125V. 250V.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3951	10	5 S.P., Ind.	10	100	30	\$54.00
3952	10	10 D.P., Ind.	10	50	17	98.00
3953	10	5 3-Way	10	50	17	74.00
3954	5	2 4-Way	2	10	4	326.00
3955	20	10 D.P., Ind.	2	10	3	154.00
3920	20	10 S.P.,* Ind.	10	50	16	108.00

*Quadruple break.

Depth of cups, $1\frac{3}{8}$ inches.

SPECIFICATION TYPE

Composition Enclosed—"T" Rating



No. 4961

Prices are for Brown handles.

Extra features at additional cost for this line are: Ivory Handles, Lock Type and Momentary Contact Type.

Cat. No.	(Amperes) 125V. 250V.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4961	10	5 S.P., Ind.	10	50	18	\$102.00
4962	10	10 D.P., Ind.	2	10	4	160.00
4963	10	5 3-Point	10	20	7	125.00
4964	5	2 4-Point	2	10	4	384.00
4965	20	10 D.P., Ind.	2	10	4	185.00
4966	20	20 S.P.,* Ind.	10	20	8	160.00

*Quadruple break.

Depth of cups, $1\frac{1}{8}$ inches.

These switches can be furnished with metal handle, without extra charge, for vaporproof boxes. In ordering, add -SH to catalog number wanted.

BRYANT INTERCHANGEABLE UNIT DEVICES

Brown Bakelite—N.E.C. Standard

ENCLOSED FLUSH TUMBLER SWITCHES



Cat. No.	Type	Amperes		Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
		125 Volts	250 Volts				
1311	S-Pole	10	5	10	100	11	\$54.00
1312	2-Pole	10	10	2	10	1	98.00
1313	3-Way	10	5	10	50	6	74.00
1314	4-Way	5	2	2	10	2	200.00
Lock Type							
1311-L	S-Pole	10	5	10	100	11	121.00
1312-L	2-Pole	10	10	2	10	1	180.00
1313-L	3-Way	10	5	10	50	6	146.00
1314-L	4-Way	5	2	2	10	2	280.00
Ivory Bakelite							
1411	S-Pole	10	5	10	50	6	58.00
1412	2-Way	10	10	2	10	1	102.00
1413	3-Way	10	5	10	30	3	78.00
1414	4-Way	5	2	2	10	1	204.00

Single-pole 15-ampere switches for special appliance application can be furnished. One No. 6000 key furnished with each lock switch.

CONVENIENCE OUTLET

15 Amp., 125 Volts; 10 Amp., 250 Volts



Length, 1 3/4 inches; width, 5/8 inch; depth, 1 1/8 inches.

Cat. No.	Color	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1320	Brown	10	100	6	\$19.00
1420	Ivory	10	100	6	25.00

ATTACHMENT PLUG CAPS

With 3/2-inch cord hole.

Cat. No.	Color	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
Standard Caps					
1321	Brown	10	100	4	\$15.00
1421	Ivory	10	50	3	18.00
Polarized Caps					
1326	Brown	10	100	4	15.00
1426	Ivory	10	50	3	19.00
Radio Caps					
1323	Brown	2	10	1	15.00
1423	Ivory	2	10	1	21.00



RADIO OUTLET

For antenna and ground connections.



Cat. No.	Color	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1322	Brown	2	10	1	\$47.00
1422	Ivory	2	10	1	53.00

The correct style mounting strap is furnished without charge, packed with each Bryant plate.

BRYANT INTERCHANGEABLE UNIT DEVICES

Brown Bakelite—N.E.C. Standard

NIGHT LIGHT

75 Watts, 125 Volts

With Clear Lamp*

With Chromium-Plated Reflector

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1339	10	30	3	\$105.00

*For omission of lamp deduct \$33.00 per 100 list.



DOME PILOT LIGHT

75 Watts, 125 Volts

With Red Lamp*

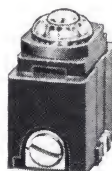
With Chromium-Plated Hood

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1340	10	30	3	\$105.00

*For omission of lamp deduct \$33.00 per 100 list.



FLUSH NEON PILOT LIGHTS



Cat. No.	Color	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1/25 Watt, 125 Volts					
1375	Brown	10	30	3	\$77.00
1475	Ivory	10	30	3	82.00
1/25 Watt, 220 Volts					
1375-220	Brown	10	30	3	90.00
1475-220	Ivory	10	30	3	95.00

OUTLET FOR PILOT LIGHT

15 Amp., 125 V.; 10 Amp., 250 V.

With parallel slots.

Cat. No.	Color	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1341	Brown	10	30	3	\$29.00
1441	Ivory	10	20	3	36.00



BELL PUSH AND BLANK INSERT

Bell push is for 6 to 12-volt circuits. Blank insert or cord hole is for wall plates.



Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1344	Bell Push	10	20	1	\$28.00
1345	Insert	5	10	1	12.00

DUPLEX CONVENIENCE OUTLET

15 Amperes, 125 Volts

10 Amperes, 250 Volts

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
13202	Brown	10	100	18	\$30.00
14202	Ivory	10	50	9	36.00



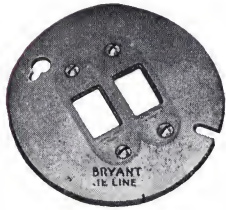
TRIPLEX CONVENIENCE OUTLET

15 Amperes, 125 Volts

10 Amperes, 250 Volts

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
13203	Brown	10	100	18	\$38.00
14203	Ivory	10	50	13	44.00

BRYANT INTERCHANGEABLE UNIT DEVICES METAL BOX COVERS



For mounting any one Bryant Interchangeable Device directly on a 3 1/4-inch outlet box, or any one or two devices on a 4-inch outlet box. Especially adapted for surface or exposed work. Cadmium-plated. Complete with necessary straps for installing.

Cat. No.	Open-ings	Box Size	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1361	1	3 1/4	10	100	26	\$19.00
1362	1	4	10	100	28	22.00
1363	2	4	10	50	16	27.00

APPLIANCE STRAP

For mounting single Bryant Interchangeable Devices in small spaces. Ideal for appliance applications.

Length, 2 1/2 inches; width, 1 1/2 inch. Mounting screw holes spaced on 1 1/2-inch centers.

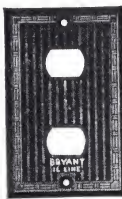


Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1354	10	100	2	\$4.00

BRYANT UNILINE PLATES FOR INTERCHANGEABLE UNIT DEVICES



No. 91011



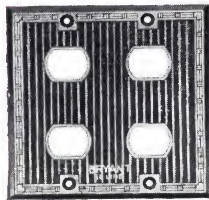
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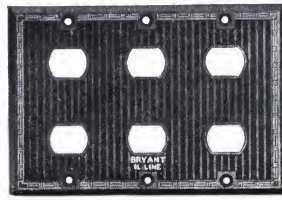
No. 91031



No. 91041



No. 91022



No. 91023

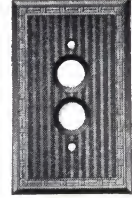
No. of Gangs	Cat. No.	Brown		Cat. No.	Ivory	
		Std. Pkg.	Price Per 100		Std. Pkg.	Price Per 100
1	91011	100	\$15.00	92011	100	\$19.00
1	91021	50	15.00	92021	50	19.00
1	91031	30	15.00	92031	30	19.00
1	91041	100	15.00	92041	100	19.00
2	91022	30	40.00	92022	30	51.00
2	91042	50	29.00	92042	30	40.00
2	91012	50	29.00	92012	30	40.00
2	91032	20	56.00	92032	20	67.00
3	91023	20	80.00	92023	20	96.00

All carton quantities 10 plates.

BRYANT UNILINE PLATES FLUSH SWITCH PLATES



No. 91071



No. 91081

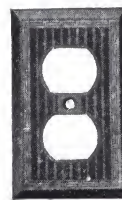
Tumbler Switch Plates

No. of Gangs	Cat. No.	Brown		Cat. No.	Ivory	
		Std. Pkg.	Price Per 100		Std. Pkg.	Price Per 100
1	91071	100	\$12.00	92071	50	\$16.00
2	91072	50	23.00	92072	25	34.00
3	91073	30	35.00	92073	15	55.00
4	91074	25	64.00	92074	15	82.00
5	91075	20	140.00	92075	10	175.00
6	91076	15	160.00	92076	10	200.00

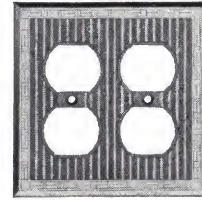
Push Switch Plates

1	91081	100	15.00	92081	50	20.00
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CONVENIENCE OUTLET PLATES



No. 91101



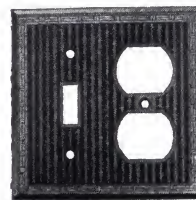
No. 91102



No. 91091

No. of Gangs	Cat. No.	Brown		Cat. No.	Ivory	
		Std. Pkg.	Price Per 100		Std. Pkg.	Price Per 100
1	91101	100	\$12.00	92101	50	\$16.00
2	91102	25	52.00	92102	25	62.00
1	91091	100	15.00	92091	50	20.00

COMBINATION, BLANK AND TELEPHONE



No. 91532



No. 91121



No. 91181

Combination Plates

No. of Gangs	Cat. No.	Brown		Cat. No.	Ivory	
		Std. Pkg.	Price Per 100		Std. Pkg.	Price Per 100
2	91512	10	\$35.00	92512	10	\$50.00
2	91532	10	30.00	92532	10	40.00
2	91572	10	70.00	92572	10	80.00
3	91543	10	64.00	92543	10	80.00
4	91554	10	168.00	92554	10	188.00

Blank Plates

1	91121	50	22.00	92121	30	27.00
2	91122	25	64.00	92122	15	74.00

One Gang Telephone Plate

1	91181	50	20.00	92181	30	25.00
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BRYANT METAL FLUSH PLATES STAINLESS STEEL

Satin Finish—.040-Inch Stamped



Tumbler Switch Plates

Cat. No.	No. of Gangs	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
97071	1	10	100	14	\$29.00
97072	2	5	50	12	66.00
97073	3	3	30	12	100.00
97074	4	3	25	12	143.00
97075	5	2	20	12	198.00
97076	6	2	15	12	220.00

Duplex Convenience Outlet

97101	1	10	100	14	29.00
97102	2	5	50	12	66.00



Combination Plates

Cat. No.	No. of Gangs	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
97512	2	2	10	2	73.00
97532	2	2	10	2	73.00
97543	3	2	10	3	110.00

Blank and Telephone Plates

Cat. No.	No. of Gangs	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
97121	1	10	50	9	39.00
97181	1	10	50	7	39.00

BRYANT SURFACE TUMBLER SWITCHES

N. E. C. Standard

BAKELITE COVER—PORCELAIN BASE

Deep Bakelite Cover

Dimensions: No. 3921 and No. 3923—Height over cover, 1 $\frac{1}{8}$ inches; supporting screw spacing, 1 $\frac{1}{8}$ inches. Nos. 3911 to 3914—Height over cover, 1 $\frac{1}{8}$ inches; supporting screw spacing, 1 $\frac{1}{8}$ inches.



With Solid, 2-Inch Base

Cat. No.	Description	(Amps.) 125 Volts	(Amps.) 250 Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3921	S.P.	5	3	10	100	24	\$63.00
3923	3-Way	5	2	10	100	25	87.00

With Solid, 2 $\frac{7}{8}$ -Inch Base

Cat. No.	Description	(Amps.) 125 Volts	(Amps.) 250 Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3911	S.P.	10	5	10	100	37	107.00
3912	D.P.	10	10	10	100	40	146.00
3913	3-Way	10	5	10	100	18	149.00
3914	4-Way	5	2	2	10	4	345.00



Shallow Bakelite Cover

Height over cover, 1 $\frac{3}{8}$ inches; supporting screw spacing, 1 $\frac{1}{8}$ inches.

With Slotted, 2-Inch Base

Cat. No.	Description	(Amps.) 125 Volts	(Amps.) 250 Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
211	S.P., Ind.	5	3	10	50	11	\$43.00
213	3-Way	5	2	10	50	11	53.00

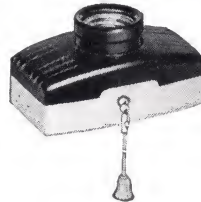
With Solid, 2-Inch Base

Cat. No.	Description	(Amps.) 125 Volts	(Amps.) 250 Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
21	S.P., Ind.	5	3	10	50	11	43.00
23	3-Way	5	2	10	50	12	53.00

BRYANT SURFACE WIRING DEVICES For Non-Metallic Cable

Combines bases of porcelain to provide desired insulation with covers of brown bakelite of pleasing appearance. Knockouts take No. 12 or No. 14 standard non-metallic sheathed cable. Plenty of room for cross-overs. Terminals easy to wire—no looping or splicing necessary. Knockouts in sides for knob and tube wiring.

LAMP HOLDERS



No. 4667



No. 4666

Pull Lampholder

Cat. No.	Watts	Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4667	250	250	10	50	32	\$100.00

Keyless Lampholder

4666	660	250	10	50	30	84.00
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ROSETTE



660 Watts, 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4668	10	50	26	\$77.00

SWITCHES—"T" RATING

10 Amp., 125 Volt; 5 Amp., 250 Volt

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
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Single Pole

4661	10	50	29	\$92.00
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Three-Way

4663	10	50	29	100.00
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DUPLEX CONVENIENCE OUTLET

Double sided contacts (REA and Federal Specification requirement).

Double Sided Contacts



15 Amp., 125 Volts

10 Amp., 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4670	10	50	27	\$66.00

JUNCTION BOX

15 Amp., 125 Volts

10 Amp., 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
4669	10	50	26	\$77.00

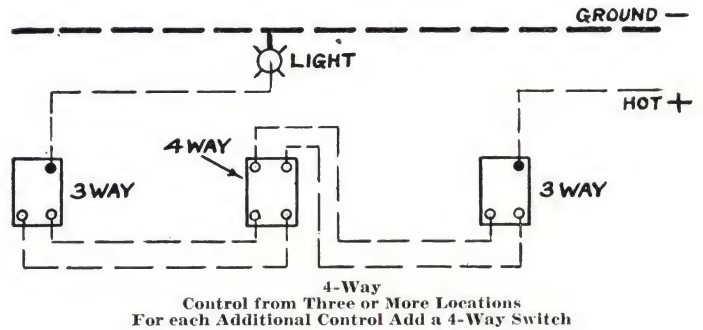
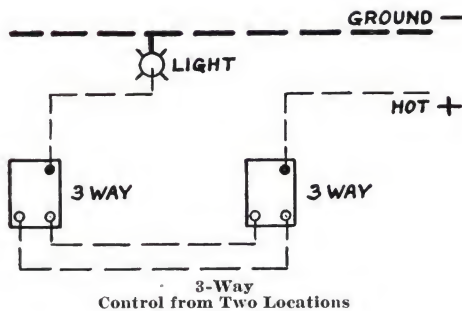
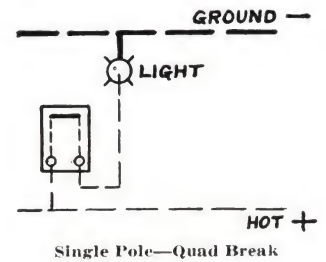
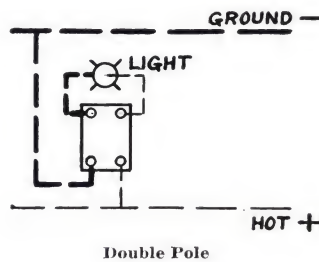
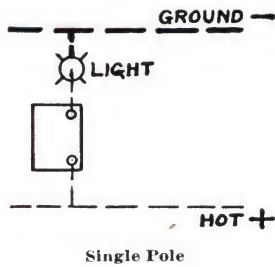


Dimensional Information

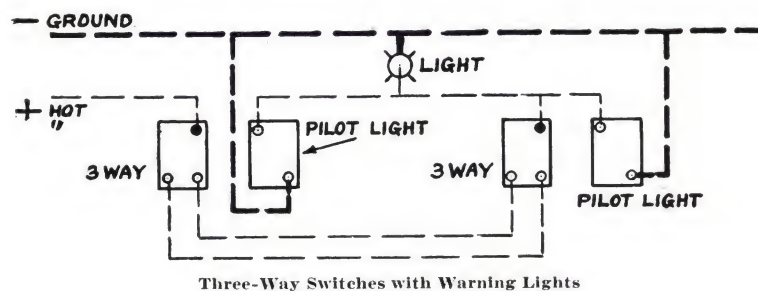
Cat. No.	Description	Length Inches	Width Inches	Height Inches
4661	Single Pole Switch	4 $\frac{1}{2}$	2 $\frac{1}{4}$	1 $\frac{1}{8}$
4663	3-Way Switch	4 $\frac{1}{2}$	2 $\frac{1}{4}$	1 $\frac{1}{8}$
4666	Keyless Lampholder	4	2 $\frac{1}{4}$	2 $\frac{1}{4}$
4667	Pull Lampholder	4	2 $\frac{1}{4}$	2 $\frac{1}{4}$
4668	Rosette	4	2 $\frac{1}{4}$	1 $\frac{1}{2}$
4669	Junction Box	4	2 $\frac{1}{4}$	1 $\frac{1}{2}$
4670	Duplex Conv. Outlet	4	2 $\frac{1}{4}$	1 $\frac{1}{8}$

BRYANT SWITCH WIRING DIAGRAMS

FLUSH AND ROTARY SWITCH



All 3-way switches are equipped with one black oxidized identified terminal to which the line (hot) or load wire to the device must be attached. In these diagrams the identified terminal is indicated by a solid dot.



The two warning lamps are lighted when the circuit is closed by either switch.

PAULDING WIRING DEVICES

KEY AND PULL CHAIN PORCELAIN SOCKETS

250 Watts, 250 Volts



No. 3500



No. 3515

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
3500	Key, Pendent	10	100	41	\$44.00
3515	Pull Chain, Pendent..	10	100	40	57.00

PORCELAIN RECEPTACLES

With Shadeholder Ring



No. 1622



No. 1619A1



No. 1620

Keyless—660 Watts, 250 Volts

Cat. No.	Description	Std. Pkg.	Pkg. Wt.	Price Per 100
1622	For 3 1/4 inch Box.....	100	52	\$20.00
1623	For 4 inch Box.....	50	35	22.00
1625	For 3 1/4 and 4 inch Box....	50	38	24.00

Pull Chain—250 Watts, 250 Volts

1619A1	Chain & Cord, 4 inch Box	50	40	44.00
1619A2	Chain & Ins., 4 inch Box..	50	40	50.00
1621A1	Chain & Cord, 3 1/4 in. Box	50	30	39.00
1621A2	Chain & Ins., 3 1/4 in. Box	50	30	45.00
1629A1	Chain & Cord, 3 1/4 & 4 inch Box.....	50	40	46.00
1629A2	Chain & Ins., 3 1/4 & 4 inch Box.....	50	40	52.00

Pull Chain and Convenience Outlet

250 Watts, 250 Volts

Outlet, 15 Amp., 125 Volts, 10 Amp., 250 Volts

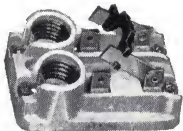
1620	Chain & Cord, 3 1/4 in. Box	50	36	51.00
1624	Chain & Cord, 4 inch Box	50	42	56.00

All above, one in a carton.

ENTRANCE SWITCHES

30 Amperes, 125 Volts

Double pole with connections for two plug fuses. Size, 4 1/8 x 3 1/8 inches.



No. 1500

Cat. No.	Fused Top	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1500		1	50	50	\$96.00
Cat. No.	Fused Bottom	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1501		1	50	50	96.00

DROP CORD COVERS

Cat. No.	For Box	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
2800	3 1/4	10	100	36	\$12.00
2801	4	10	50	34	16.00



PAULDING WIRING DEVICES

SINGLE POLE BAKELITE SWITCH

With "T" Rating

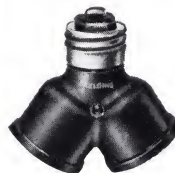
10 Amp., 125 V.; 5 Amp., 250 V.

Bakelite box, approx. 1-inch deep. Single pole enclosed mechanism. Top wiring, easy to wire and test. Long handle.



Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
950T	10	100	15	\$36.00

BAKELITE CURRENT TAPS



No. 5100

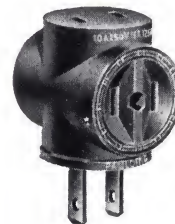


No. 5250



No. 5200

Cat. No.	Style	Rating Watts	Volts	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
5100	Twin-Lite	660	250	10	250	30	\$17.00
5250	Pull Chain	250	250	10	250	46	30.00
5200	Keyless	660	250	10	250	34	17.00



BAKELITE CUBE TAP

15 Amp., 125 Volts
10 Amp., 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
510	25	250	24	\$12.00

BAKELITE SERVICE BLOCK

15 Amp., 125 Volts
10 Amp., 250 Volts

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
515	25	250	22	\$12.00



BAKELITE KEY AND PULL CHAIN SOCKETS

250 Watts, 250 Volts



No. 550-551



No. 570-571

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
550	Key, Pendent Cap	10	250	47	\$37.00
551	Key, 1/8" Cap.....	10	250	47	41.00
570	Pull Chain, Pendent Cap..	10	250	44	46.40
571	Pull Chain, 1/8" Cap.....	10	250	44	50.40

LEVITON WIRING DEVICES

No. 382 FLUORESCENT STARTER
PUSH SWITCH

For One Lamp Control



40 Watts, 125 Volts — A.C.

Cat. No.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
382	25	250	12	\$50.00

Supplied in brass, bronze or nickel finishes.

No. 572 ROTARY CANOPY SWITCH

With bakelite knob. 6 - inch leads.

6 Amp., 125 Volts — 3 Amp., 250 Volts

Cat. No.	Shank	Car-ton	Std. Pkg.	Price Per 100
572	$\frac{5}{8}$ -inch	25	250	\$18.00
572A	$\frac{7}{8}$ -inch	25	250	19.00



No. 10071 ROTARY CANOPY SWITCH

Removable metal knob. 6 - inch leads.

3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Size Shank	Car-ton	Std. Pkg.	Price Per 100
10071	$\frac{5}{8}$ -in.	25	250	\$18.00
10071A	$\frac{7}{8}$ -in.	25	250	18.00



No. 574 ROTARY CANOPY SWITCH

Black bakelite. 6 - inch leads.

3 Amp., 125 Volts — 1 Amp., 250 Volts

Cat. No.	Size Shank	Car-ton	Std. Pkg.	Price Per 100
574	$\frac{5}{8}$ -inch	50	250	\$17.00
574A	$\frac{7}{8}$ -inch	50	250	18.00

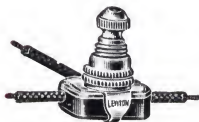


No. 573T 2-CIRCUIT ROTARY CANOPY SWITCH

Metal knob. Three 6 - inch leads, colored black, green and red.

3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Size Shank	Car-ton	Std. Pkg.	Price Per 100
573T	$\frac{5}{8}$ -in.	25	250	\$23.00

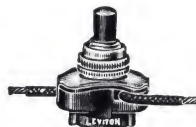


No. 575 PUSH CANOPY SWITCH

With 6-inch leads.

3 Amp., 125 Volts—1 Amp., 250 Volts

Cat. No.	Size Shank	Car-ton	Std. Pkg.	Price Per 100
575	$\frac{5}{8}$ -in.	25	250	\$20.00



PULL CANOPY SWITCH

Fitted with 6-inch C.F. wire leads. With $\frac{5}{8}$ -inch shank.

Switch rating—3 amperes, 125 volts; 1 ampere, 250 volts.

Cat. No.	Car-ton	Std. Pkg.	Price Per 100
10071P	25	200	\$30.00



RODALE WIRING DEVICES

ROTARY BRASS KNOB
CANOPY SWITCH3 Amp., 125 Volts
1 Amp., 250 VoltsCarton, 25; standard pack-
age, 250. Weight, 10 lbs.
Underwriters' Listed.Price, No. 722 Single Pole.....each \$0.18
Price, No. 727 Two-Circuit.....each .23

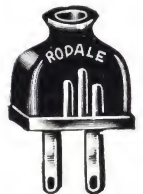
FLAT RUBBER GRIP CAPS

15 Amp., 125 Volts

10 Amp., 250 Volts

Cord hole, $\frac{3}{8}$ inch diameter.
Carton, 25; standard package,
500. Weight, 27 lbs. Underwrit-
ers' Listed.

Price, No. 506.....each \$0.10



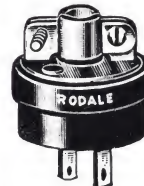
RUBBER INDUSTRIAL CAPS

15 Amp., 125 Volts

10 Amp., 250 Volts

With metal cord clamp. Cord
hole $\frac{1}{2}$ inch. Carton, 25; standard
package, 100. Weight, 13 lbs.
Underwriters' Listed.

Price, No. 524.....each \$0.28

RUBBER FEMALE CORD
CONNECTOR

15 Amp., 125 Volts

10 Amp., 250 Volts

With metal cord clamp. Use with
No. 524 cap to make complete two
piece cord connector. Cord hole, $\frac{1}{2}$
inch. Carton, 10; standard package,
100. Weight, 16 lbs. Underwriters'
Listed.

Price, No. 523.....each \$0.60



RUBBER CORD CONNECTORS

15 Amp., 125 Volts

10 Amp., 250 Volts

Soft rubber body and cap. Carton,
20; standard package, 100. Weight,
15 lbs. Underwriters' Listed.

Cat. No.	Description	Price Each
T61	Two Piece Complete	\$0.40
T62	Female Connector	
	Half .....	.32



UNION INSULATING SOCKETS

Listed by Underwriters' Laboratories, Inc.
WEATHERPROOF BAKELITE SOCKETS



No. 43310

No. 60666

No. 53310

These Bakelite sockets are recommended for use where the socket will be subjected to exceptional abuse. All sockets supplied with spring contacts unless solid contacts specified.

Cat. No.	Description	Carton	Std. Pkg.	Wt. Lbs.	Price Per 100
43310	Bakelite	25	100	13	\$24.21
43310	Extratuf	25	100	13	26.31
60666	Bakelite	25	100	14	28.81
53310	Extratuf	25	100	15	38.95

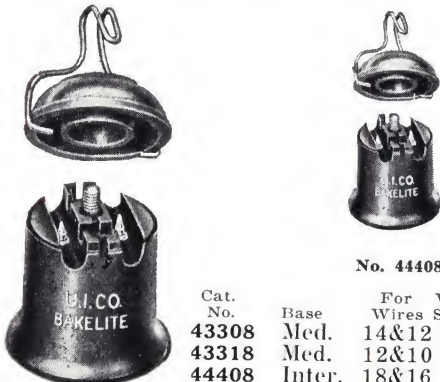
FABRIC IMPREGNATED CANVAS BAKELITE WEATHERPROOF SOCKET



Canvas impregnated with bakelite makes this socket practically indestructible. For use where sockets receive the greatest abuse. Phosphorous bronze spring (or solid) contacts. Stranded No. 14, 6-in leads. 660 watts, 600 volts.

Cat. No.	Carton	Std. Pkg.	Wt. Lbs.	Price Per 100
63310	25	100	15	\$46.52

BAKELITE EVER-READY PIN-TYPE SOCKETS



No. 43308

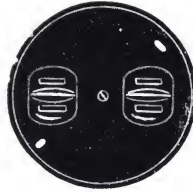
No. 44408

Cat. No.	Base	For Wires	Wt. Lbs.	Price Per 100
43308	Med.	14&12	11½	\$30.00
43318	Med.	12&10	11½	30.00
44408	Inter.	18&16	4	19.00
44418	Inter.	14	4½	26.00
11108	Cand.	18	2¼	15.00
11108N	Cand.	20	2¼	15.00

Carton, 10; standard package, 100.

UNION BAKELITE COVERS

Listed by Underwriters' Laboratories, Inc.
WITH DUPLEX RECEPTACLE



Nos. 3057 and 4057 supplied with standard parallel slotted duplex receptacles. Nos. 3057-T and 4057-T supplied with T-slotted double wiping duplex receptacles.

Fit all standard octagon boxes.

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
3057	3¼	10	100	16	\$47.00
3057-T	3¼	10	100	21	58.00
4057	4	10	100	21	50.00
4057-T	4	10	100	26	62.00

UNION LAMPHOLDERS

Listed by Underwriters' Laboratories, Inc.
KEYLESS AND PULL CHAIN LAMPHOLDERS



No. 4049



No. 4071

Convenient back mounted contact screws for easy wiring—full space in box. Box sealing rings and reinforcing feet offer a firm foundation for mounting. Meets Underwriters' Requirements of .100 inch minimum wall thickness.

Cat. No.	Color	Description	Std. Pkg.	Wt.	Price Per 100
4049	Brown	3¼", 4" Sw.Box	100	17	\$23.10
4049-W	White	3¼", 4" Sw.Box	100	17½	27.30
Pull Chain Lampholder					
4071	Brown	3" Chain & Cord	50	16	51.45
4071-W	White	3" Chain & Cord	50	16	58.80
4071-C	Brown	6" Chain	50	16	51.45
4071-CW	White	6" Chain	50	16	58.80
4071-I	Brown	6" Chain & Insl.	50	16	59.85
4071-IW	White	6" Chain & Insl.	50	16	67.20

Carton quantity, 10.

PIGTAIL AND SCREW TERMINAL TYPES



No. 3058-4058



No. 3059-4059

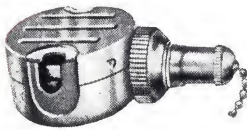
Standard medium base with shade holder groove. All sizes are ruggedly constructed and generously designed to withstand the roughest use under the most severe conditions. Back of cover designed to neatly close outlet box, thus preventing entrance of dust and dirt. Suitable for outdoor or indoor installations. Carry bleeder hole knock-outs.

Weatherproof Pigtail Lampholder

Cat. No.	Size Inches	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
3058	3¼	10	100	20	\$43.09
4058	4	10	100	25	45.08
Screw Terminals—Medium Base					
3059	3¼	10	100	19	31.50
3059W	3¼	10	100	19	37.80
4059	3¼ or 4	10	100	22	35.70
4059W	3¼ or 4	10	100	22	42.00

McGILL LEVOLIER SWITCHES

Approved by Underwriters' Laboratories, Inc.

LEVER OPERATED—SINGLE CIRCUIT**6 Amp. "T," 125 Volt—3 Amp., 250 Volt**

No. 41

Only $\frac{5}{8}$ inch thick the No. 41 is one of the smallest 6 amp. 250 volt pull switches made, yet has unusual capacity, dependability and long life. Single pole, double break mechanism, equipped with 6 ft. cord or plain lever control. Standard finishes: brass, dark bronze, and burnished nickel.

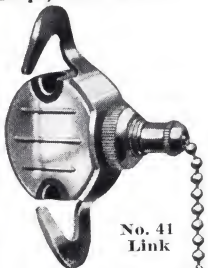
Widely adaptable for canopy or conduit box mounting for individual control of incandescent or fluorescent lighting, F.H.P. motors, etc.

Cat. No.	Stem, In.— Diam. Length	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
41	$\frac{7}{8}$ $\frac{3}{8}$	10	100	10	\$100.00
41PL	No. 41 with Plain Lever, no chain				95.00
42	$\frac{7}{8}$ $\frac{3}{8}$	10	100	11	105.00
43	$\frac{7}{8}$ $\frac{3}{4}$	10	100	11	105.00

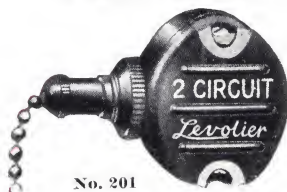
LEVER OPERATED—SINGLE CIRCUIT**6 Amp. "T," 125 Volt—3 Amp., 250 Volt**

Can be used on any chain fixture, old or new, and between any two links of chain. When installed in fixtures that have been previously hung it fits in place of one of the chain links without altering the length of the fixture or necessitating rewiring or splicing of lead wires.

The Levolver link switch consists of a standard Levolver pull switch, and Levolver link.

No. 41
Link

Cat. No.	Description	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
39	No. 41 with Mounting Link	10	100	13	\$100.00

LEVER OPERATED—TWO CIRCUIT**3 Amp., 125 Volt—1 Amp., 250 Volt**

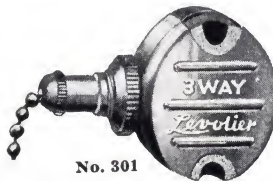
No. 201

Designed to operate with three-light lamps. When installed in the canopy of a fixture using the three-light lamp, it operates as follows: First pull turns on smaller filament, second pull turns off small filament and turns on the larger filament, third pull turns both filaments on and fourth turns both off. Standard finishes, brass, dark bronze and burnished nickel. Size $\frac{7}{8}$ x $1\frac{1}{8}$ inches.

Cat. No.	Stem, In.— Diam. Length	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
201	$\frac{7}{8}$ $\frac{3}{8}$	10	100	11	\$100.00
202	$\frac{7}{8}$ $\frac{3}{8}$	10	100	11	105.00
203	$\frac{7}{8}$ $\frac{3}{4}$	10	100	12	105.00

LEVER OPERATED—THREE WAY**3 Amp., 125 Volt—1 Amp., 250 Volt**

Permits the control of one or more lights from two different points. Also used as reversing switch and for fractional horse power motors. Standard finishes, brass, dark bronze, burnished nickel. Size $\frac{7}{8}$ x $1\frac{1}{8}$ inches.

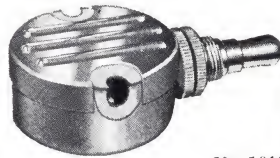


No. 301

Cat. No.	Stem, In.— Diam. Length	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
301	$\frac{7}{8}$ $\frac{3}{8}$	10	100	12	\$110.00
302	$\frac{7}{8}$ $\frac{3}{8}$	10	100	12	115.00
303	$\frac{7}{8}$ $\frac{3}{4}$	10	100	13	115.00

McGILL LEVOLIER SWITCHES

Approved by Underwriters' Laboratories, Inc.

LEVER OPERATED—SINGLE CIRCUIT**10 Amp. "T," 125 Volt—5 Amp., 250 Volt**

No. 1010

Smallest 10 Amp. pull switch made yet the No. 1010 has the ability to withstand the same loads as switches much larger in size. Single pole double break mechanism with 6 ft. cord

and bell.

For individual control of high wattage lamps and fluorescent banks up to six 4-tube fixtures. Standard finishes, brass, dark bronze and burnished nickel.

Cat. No.	Stem, In.— Diam. Length	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1010	$\frac{1}{2}$ $\frac{3}{8}$	10	100	20	\$170.00
1010L	$\frac{1}{2}$ $\frac{5}{8}$	10	100	20	175.00

1010PL No. 1010 with

Cat. No.	Description	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1010PL	No. 1010 with Plain Lever—No Chain	10	100	20	165.00
1039	With Mounting Link	10	100	26	170.00

SWITCH HOUSING PLASTIC OUTLET BOX COVER

With No. 1010 Switch

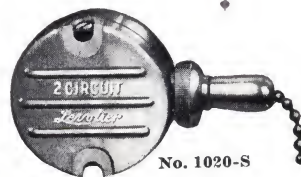
No. 109 outlet box cover provides a cover and switch assembly for ceiling or wall mounted outlet boxes. Provides an inconspicuous, well-designed housing to replace large, unsightly switches. Ideal to provide power-saving individual control of banks of lights up to 1250 watts. Housing is molded brown phenolic plastic with recess to accommodate No. 1010 Levolver switch. Molded with partial holes which can be punched out to fit 3- or 4-inch outlet boxes.



No. 109

No. 109-X is the same as above but without switch. May be used with other Levolver switches including Nos. 42, 202, 302 and 1020S.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
109	With No. 1010 Switch	20	5 $\frac{1}{2}$	\$2.30
109-X	Same, without Switch	20	1	.40

LEVER OPERATED—TWO CIRCUIT**10 Amp. "T," 125 Volt—5 Amp., 250 Volt**

No. 1020-S

Sturdy single pole 10 Amp. switch to control double filament, three light lamps. Also suitable for fluorescent groups where it is desirable to light one or more tubes in individual fixtures. Circuit control

sequence: 1, 2, 1 and 2, off. Equipped with 6 ft. cord and bell. Standard finishes, brass, dark bronze, and burnished nickel. Size $\frac{7}{8}$ x $1\frac{1}{8}$ inches.

Cat. No.	Stem, In.— Diam. Length	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1020S	$\frac{7}{8}$ $\frac{3}{8}$	10	100	13	\$180.00
1020L	$\frac{7}{8}$ $\frac{3}{4}$	10	100	13	185.00

1020PL No. 1020S with

Cat. No.	Description	Car- ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1020PL	No. 1020S with Plain Lever—No Chain	10	100	13	175.00

McGILL LEVOLIER SWITCHES

Approved by Underwriters' Laboratories, Inc.

LEVOLIER SPECIAL USE SWITCHES

For Multiple Circuits



No. 400

The following are typical of the many Special Use Switches built by McGill for controlling all types of circuits. Others can be designed readily with the McGill method of assembling interchangeable component parts. Rated from 4 to 10 Amps. 250 volt, these switches are especially serviceable for ventilating fans, circulators and fractional horse power motors. Overall sizes are small.

Cat. No.	Stem, Ins. Dia.	Stem, Ins. Length	Amperes—125V	Amperes—250V	Std. Pkg.	Pkg. Wt.	Price Per 100
1-2-off, D.P., 2 Circuit							
206	1/2	1/2	6	3	---	15	\$200.00
1-off-2-off, D.P., 2 Circuit							
265	1/2	1/2	6	3	---	15	190.00
1-off-2-off, S.P., 2 Circuit							
272	1/2	1/2	10	5	---	15	190.00
off-on, D.P., 1 Circuit							
276	1/2	1/2	6	3	---	15	190.00
1-off-2-off, D.P., 2 Circuit							
282	1/2	1/2	6	3	---	15	200.00
1-2-3-off, S.P., 3 Circuit							
400	7/8	3/8	4	2	---	15	130.00
1-off-2-off, S.P., 2 Circuit							
402	7/8	3/8	4	2	---	13	125.00
1-2-3-4-no off, S.P., 4 Circuit							
404	7/8	3/8	4	2	---	13	130.00
1-2-off, S.P., 2 Circuit							
406	7/8	3/8	4	2	---	13	125.00
1-2-off, D.P., 2 Circuit							
450	1/2	1/2	6	2	---	15	200.00
1-2-3-off, D.P., 3 Circuit							
473	1/2	1/2	6	3	---	15	260.00
fwd.-off.-rev.-off, 2 Circuit							
480	1/2	1/2	6	3	---	15	200.00

No. 1080 Plastic Housing for above Special Use Switches Nos. 206, 265, 272, 276, 282, 450, and 480 is furnished at \$30.00 per 100 extra.

Brass Caps and Casings for above Special Use Switches Nos. 400, 402, 404, and 406 furnished at \$30.00 per 100 extra.

Caps and Casings for above Special Use Switches No. 473 not available.

PULL CHAIN—SINGLE CIRCUIT

3 Amp. "T," 125 Volt—1 Amp., 250 Volt



No. 21

Especially durable, yet inexpensive 3 Amp., 250 Volt switch with single pole, double break mechanism, enclosed in plastic case. 6 in. wire leads secured to terminals by pressure connections — no soldered terminals. Equipped with 6 ft. cord and bell. Size 1 x 1 1/4 inches.

Cat. No.	Stem, Ins. Dia.	Stem, Ins. Length	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
21	3/4	1 1/4	10	100	7	\$62.50

McGILL LEVOLIER SWITCHES

Approved by Underwriters' Laboratories, Inc.

LEVER OPERATED—SINGLE CIRCUIT

6 Amp. "T," 125 Volt—3 Amp., 250 Volt



No. 71

The No. 71 is the thinnest 6 Amp., 250 Volt "T" rated switch made — only 1/2 inch thick. Plastic cased with 6-inch wire leads, it is built with the famous Levolver mechanism for dependability and long life. Size 1 1/2 x 1 3/4 inches.

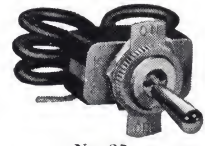
Ideal for small, and especially thin sectional fixture canopies.

Cat. No.	Stem, Ins. Dia.	Stem, Ins. Length	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
71	1/2	3/4	10	100	8	\$87.50

SINGLE CIRCUIT—TWO CIRCUIT—THREE WAY

6 Amp., 125 Volt—3 Amp., 250 Volt

Practical but small plastic cased toggle switches with wire leads or soldering lugs. Dust and vibration proof with single pole, double break mechanism. No. 25 is single circuit for individual control of lights in such applications as Pullman cars, busses, trailers, lamps, appliances, small tools, fractional horse power motors, etc. "T" rated. Size 1/2 x 1/2 x 1 inch.



No. 25

No. 27 is three way for control of one or more lights from two points. No. 28 for controlling either of two circuits. No off position.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
25	Single Circuit, Wire Leads	10	100	5	\$62.50
25-L	Single Circuit, with sold. Lugs	10	100	4	62.50
27	Three-Way, Wire Leads	10	100	5	80.00
27-L	Three Way, w/sold. Lugs	10	100	4	70.00
28	Two Circuit, Wire Leads	10	100	5	80.00
28-L	Two Circuit, w/sold. Lugs	10	100	4	70.00

All stem diameters 1/2", length 1/4".

LEVOLIER FIXTURE SOCKETS

Approved by Underwriters' Laboratories, Inc.

660 Watts, 250 Volts

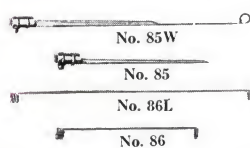


No. 121

For brackets and chandeliers using candles, husks, and other types of socket covers. The porcelain lever serves as a finishing knob and does away with unsightly black keys, slots in husks, or chains coming out of the side.

Cat. No.	Description	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
103	5/8" Nipple, Brass or Nickel	10	100	13	\$95.00
119	5/8" Nipple, Plain Lever	10	100	12	95.00
121	5/8" Nipple, Porcelain	10	100	15	105.00
122	3/4" Nipple, Porcelain	10	100	15	100.00
127	Square Shank, Plain Lever	10	100	14	95.00
128	Porcelain Knob, White	10	100	---	10.00

LEVOLIER EXTENSION ARMS



Constant pulling of lamp cords that rub against reflectors, shades, and bowls, causes needless wear, expense, fixture swaying and risk. The arm slips over the Levolver switch lever, cord is inserted through end hole and knotted to hold. No. 85-W can be extended for use with 18-22-in. and larger basin fixtures. Standard or special finished to match all Levolver switches.

Cat. No.	Overall Length Inches	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
85	5 1/4	10	100	3	\$23.00
85-W	9	10	100	4	28.00
86	5	10	100	2	13.00
86-L	9	10	100	3	19.00

EAGLE WIRING DEVICES

BAKELITE CUBE TAP

With Brass Spring Prongs
Spring Prong feature on this item is most desirable to avoid tap falling out of receptacle.



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
781B	25	250	22	\$13.00



BAKELITE CUBE TAP CORD CONNECTOR

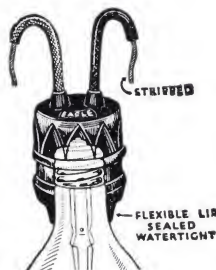
The No. 785 extension tap unwired. Screw connections.

Cat. No.	Display Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
786B	25	250	20	\$13.00

ALL RUBBER PIGTAIL SOCKET

Rubber covered leads, one white, one black. Extended lip presses on to glass of bulb when screwed into socket. Makes absolutely watertight connection. Leads stripped.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
124	25	200	38	\$19.00



RUBBER CORD CONNECTOR

Made with pull handle. Superior construction. Will fit all parallel blades.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
178	25	250	28	\$30.00

FLAT BAKELITE CAP

A two-piece bakelite cap, easily assembled for connecting wires. Necessary when used on devices that contain three or more outlets like No. 746 and others.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
707B	25	250	11	\$9.00



EAGLE WIRING DEVICES

LARGE RUBBER HANDLE CAP

With fibre washers. Brass spring prong blades. Same fine construction as the No. 117—1/8-inch hole. Underwriters' listed. 660 watts, 250 volts.

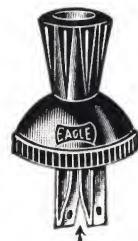
Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
170	10	200	22	\$14.00



FLEXIBLE SPRING PRONG RUBBER HANDLE CAP

With fibre washers. Neat in size. Sturdy in construction. Can be used for heavy duty work as well as for regular cord sets. 3/8-inch hole. Brass spring prongs. 660 watts, 250 volts.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
179	25	250	18	\$9.00



FIBRE SOCKET EXTENSION

Overall length, 2 5/8 inches. Extends socket 1 1/2 inches.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
312	25	250	22	\$12.00



METAL SOCKET EXTENSION

One-piece construction with spring contact and porcelain base. Brass sleeves contain Uno thread. Length 2 inches; extends socket, 1 inch.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
346	25	250	19	\$16.00



BAKELITE EDISON SOCKET ADAPTER

A sturdy product for connecting a prong outlet to an Edison screw shell outlet to carry a lamp. Prongs are brass, bakelite is black.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
738	25	250	21	\$14.00



SOCKET REDUCERS

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
332	25	250	39	\$24.00
313	25	250	14	10.50



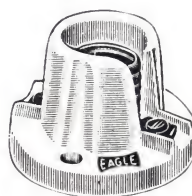
PORCELAIN RECEPTACLES

Miniature Receptacle

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
303	50	200	12	\$10.00

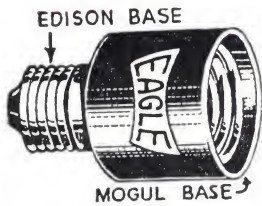
Candelabra Receptacle

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
304	50	200	14	10.00



EAGLE WIRING DEVICES

EDISON TO MOGUL ADAPTER



Made of a one-piece combination Edison to Mogul Shell, no soldered connections, porcelain interior hard fibre sleeve. Overall length $2\frac{5}{8}$ in. Extends bulb $1\frac{1}{8}$ in. from socket.

Cat. No.	Car-ton	Std. Pkg.	Wt. Pkg.	Price Per 100
362	10	100	13	\$55.00

BAKELITE TRIPLE CONVENIENCE OUTLET

Sturdily constructed. Equipped with binding head screws for wire connection. Quick and easy to connect — just one screw to fasten outlet. Furnished with wood screw.



Cat. No.	Description	Car-ton	Std. Pkg.	Wt. Pkg.	Price Per 100
769B	Brown Bakelite	25	500	40	\$18.00
769V	Ivory Bakelite	25	500	40	23.00

BAKELITE TRI TAP



Distinctive design for either table or wall use. Size $2\frac{3}{4} \times 1\frac{1}{2} \times \frac{3}{4}$ inches containing three outlets to receive three flat caps or 2 standard round caps. Fastens to wall by single screw. A steel plate is fastened to the outside of the pressboard cover for sturdy backing.

Cat. No.	Display Box	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
746B	20	200	33	\$16.00

BAKELITE 3-WAY EXTENSION

A small and neat 3-way bakelite extension tap. 6 ft. approved rubber cord and flat bakelite handle cap. 1 to box.



Cat. No.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
745B	100	43	\$54.00

No. 475 EAGLE WINKER

Regular type. 100 watts, 110 volts. 14 to 18 flashers per minute. Overall length $2\frac{3}{4}$ inches. Extends lamp $1\frac{1}{4}$ inches from socket.

Underwriters Listed. Approved by CSA.



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
475	25	250	18	\$30.00

No. 477 EAGLE WINKER

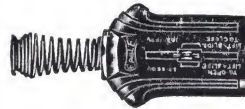
Slow type. 660 watts, 110-120 volts only. For use on A.C. only. 10 to 16 flashes per minute. With the On-Interval longer than the Off-Interval.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
477	25	25	3	\$70.00



EAGLE ELECTRICAL PRODUCTS

SPRING-LOK APPLIANCE PLUG



Screwless iron plug — no screws or nuts to loosen. An ingenious spring locks this plug and gives spring action at 4 different points. Bulldog grip contacts.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
750	10	250	26	\$13.50

EAGLE BAKELITE PLUG

Though heat will eventually spread the clip, this spring tongue will always make the contact. Heat resisting bakelite.



Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
A-750	10	250	26	\$13.50

BAKELITE 3-LB MIDGET PLUG



The new small size plug to fit standard 3 lb. irons. Black bakelite.

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
720	10	100	8 $\frac{1}{2}$	\$10.50

LUMINOUS PENDANTS

Grade "M" Undark luminous material used. No. 103 packed 12 on attractive counter display card. No. A-103 is mounted one on a display card.

Cat. No.	Standard Package	Wt. Lbs. Std. Pkg.	Price Per 100
103	12 cds.	6	\$208.00
A-103	100	2	16.00



BRYANT CHAIN AND CORD ITEMS



No. 5969

Cat. No.	Description	Price
5935	Cord—500 ft. spool.....(each)	\$25.00
5969	No. 6 Chain—250 ft. spool....(each)	22.00
5830	Nickel plated pendant.....(per 100)	6.00

INSULATING AND SPLICING LINKS



No. 810



No. 513

In those pull devices having a combination of chain and cord, No. 810 splicing link is used to join the two. Standard finish, brush brass.

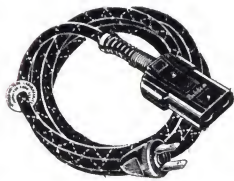
Insulating Link for No. 6 Chain

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
513	100	100	---	\$16.00

Cat. No.	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
810	100	100	---	5.00

BELDEN ELECTRICAL CORDS

TUG-PROOF HEATER CORDS



No. 1716 Heavy-Duty

7 Ft. Size 18—3000 cycle heater cord; Belden unbreakable Soft Rubber Plug and Belden 400 appliance plug. Heavy abrasion-proof cotton braid. Underwriters' Blue Flag Label.

Price, No. 1716 Heavy-Duty.....each \$1.10

No. 1731 De Luxe Heater Cord

7 Ft. Size 16 — 10,000 cycle "Long-Life" heavy Twine Braid Heater Cord; Belden Unbreakable Soft Rubber Plug and Belden 400 "Cordlife" Appliance Plug. Design and assembly have been so perfected that the plug can be sealed at the factory — for trouble free performance. Underwriters' Blue Flag Label.



Price, No. 1731 DeLuxe.....each \$1.60



No. 1717—For Roasters

6 Ft. Size 16 — 3,000 cycle heater cord; Belden Unbreakable Soft Rubber Plug; and riveted "Cordlife" Roaster Plug of the same construction as No. 400 Plug. Heavy abrasion-proof cotton braid. Underwriters' blue flag label.

Price, No. 1717 Heater Cord.....each \$1.30

No. 1737—For Heater Appliances

7 Ft. Size 18—3000 cycle Heater Cord; Belden Unbreakable Soft Rubber Plug. Heavy abrasion-proof cotton braid. No appliance plug; ends stripped and tinned; braid bound.

Underwriters' green flag label.



Price, No. 1737 Heater Cord.....each \$0.70

No. 1728 for Coffee Makers, Small Appliances



6 Ft. Size 18 — 3000 cycle heater cord; combination black glazed cotton and white rayon braid; Belden Unbreakable Soft Rubber Plug; and miniature appliance plug. Underwriters' blue flag label.

Price, No. 1728 Heater Cordeach \$1.10

No. 1701 Service Extension Cord

Both ends unbreakable rubber—safe for use on table tops. Various lengths of Belden 1760 all-rubber lamp cord with Belden Unbreakable Soft Rubber Attachment Plug and Belden Unbreakable Soft Rubber Service Block. Underwriters' blue flag label.



Cat. No.	Description	Price Each
1701	10 Ft., brown or ivory.....	\$1.40

BELDEN ELECTRICAL CORDS

FOR LAMPS, RADIOS, SMALL APPLIANCES



Size 18 type POSJ-64 all-rubber lamp cord with Belden Unbreakable Soft Rubber Plug; opposite end stripped and tinned. Underwriters' green flag label.

Cat. No.	Description	Price Each
1725	7½ Ft., brown.....	\$0.60
1735	12 Ft., brown.....	.70

FOR VACUUM CLEANERS AND WASHING MACHINES

Complete with Belden Unbreakable Soft Rubber Plug; opposite end stripped and tinned ready for easy attachment to electrical unit; Underwriters' green flag label.



Cat. No.	Description	Price Each
For Vacuum Cleaners		
1752	20 Ft. Size 18 type SV extra flexible portable cord	\$1.70
For Washing Machines		
1750	10 Ft. Size 16 type SJ extra flexible portable cord	1.35

ELECTRIC SHAVER CORDS



Six-foot extra flexible all-rubber cords with Belden Unbreakable Soft Rubber Plugs and Connectors. Underwriters' blue flag label.

Cat. No.	Description	Price Each
1770	For Schick and Knapp-Monarch.....	\$1.25
1771	For Remington Rand, Shavemaster, Roto Shaver, Nicholl-Velvet.....	1.25

BELDEN EXTENSION CORDS

No. 1702 Service Extension Cord

15 Ft. Size 18 with 2-way connector. Underwriters' blue flag label. In individual carton.



Price, No. 1702 Extension Cord.....each \$1.60

No. 1751 Extension Cord



25 Ft. Size 18. Both ends unbreakable rubber. Type SV extra flexible portable cord with Belden unbreakable soft rubber plug and molded-on rubber connector. Underwriters' blue flag label.

Price, No. 1751 Extension Cord.....each \$2.40

BELDEN ELECTRIC RANGE CORDS



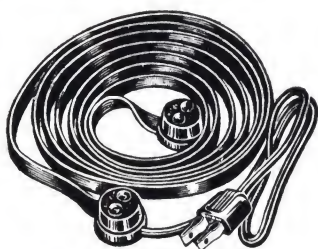
Conductors are both clamped and soldered to the prongs inside the Belden molded-on rubber, 3-prong polarized plug. Conductor extends to tip of lugs, giving greater mechanical strength and superior electrical contact. Strain relief supplied.

Underwriters' Inspected under Re-examination Service. Each cord in a printed sleeve. Five to a carton.

Cat. No.	Description	Price Each
1707	38-inch Electric Range Cord. 2-#6 and 1-8# conductors. N.E.C. cord rating 56 amperes for ranges.....	\$3.65
1708	36-Inch Electric Range Cord. 2-#8 and 1-10# conductors. N.E.C. cord rating 43 amperes for ranges.....	3.15

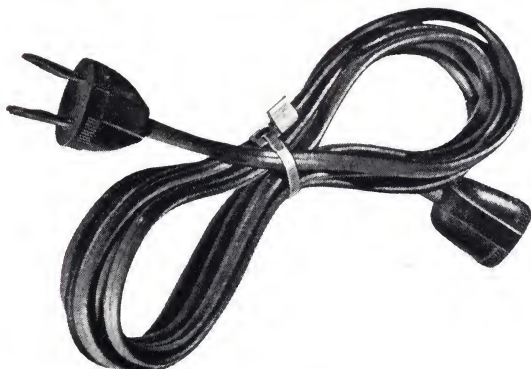
BELDEN ELECTRICAL CORDS PORTABLE OUTLETS

Dangerous and unsightly temporary extensions have been eliminated by this neat, practical method of locating appliances wherever wanted about the room. Consists of various lengths of 1724 flat rubber sheathed strip with outlets at each end; Belden Soft Rubber Plug and 3 feet of POSJ-64 brown lamp cord at one end for quick attachment to wall outlet.



Cat. No.	Description	Price Each
1715	Portable Outlets with 15-ft. 4-in. Under-Rug Wire	\$3.15
1712	Portable Outlets with 12-ft. 4-in. Under-Rug Wire	2.95
1709	Portable Outlets with 9-ft. 4-in. Under-Rug Wire	2.65
1706	Portable Outlets with 6-ft. 4-in. Under-Rug Wire	2.40

No. 252 POSJ-64 CORD SET



Fifteen foot length of Brown #18-2 Conductor POSJ-64 Cord with a Brown Tab-22 Electrix Plug attached to one end and a Brown Fem-88 Female connector on the other end. Packed 25 to a carton. Shipping weight 12 lbs. per carton.

U.S. FLEXIBLE CORDS

No. 250 POSJ-64 CORD SET



Fifteen foot length of Brown #18-2 Conductor POSJ-64 Cord with a Brown Tab-22 Electrix Plug attached to one end and a Brown Tab-122 Service Block on the other end. Packed 25 to a carton. Shipping weight 13 lbs. per carton.

No. 246 POSJ-32 CORD SET



Fifteen foot length of Brown #18-2 Conductor POSJ-32 with a Brown Pep-33 Electrix Plug attached to one end and a Brown Tab-122 Service Block on the other end. Packed 25 to a carton. Shipping weight 16 lbs. per carton.

OUR FACILITIES ARE
ALWAYS AVAILABLE TO
AID YOU WITH YOUR
ELECTRICAL REQUIREMENTS.

BRYANT PLUG FUSE CUTOUTS

N. E. C. Standard
WITH FUSED NEUTRAL
30 Amperes, 125 Volts



410

220

221

222



232

330

Cat. No.	Dimensions Inches	Single-Pole Main Line		Pkg. Wt.	Price Per 100
		Car-ton	Std. Pkg.		
410	2 3/4 x 1 1/2	10	100	38	\$38.00
220	2 1/8 x 2 3/8	10	100	61	62.00
221	2 1/8 x 3 1/2	5	50	46	70.00
222	2 1/8 x 5 3/2	5	50	67	100.00
232	2 1/8 x 6 1/8	5	50	79	120.00
330	2 3/8 x 4 7/8	5	50	50	78.00

WITH SOLID NEUTRAL
30 Amperes, 125 Volts

Cat. No.	Dimensions Inches	2-Pole Main Line		Pkg. Wt.	Price Per 100
		Car-ton	Std. Pkg.		
120	2 3/2 x 2 9/8	10	150	64	\$60.00
121	2 1/4 x 3 1/2	10	100	76	70.00
122	2 1/4 x 5 3/2	5	50	49	110.00
132	2 1/4 x 6 1/8	5	50	61	120.00
134	3 1/8 x 6 1/2	5	25	47	180.00

BRYANT CARTRIDGE FUSE CUTOUTS

N. E. C. Standard
SINGLE-POLE — 250 VOLTS
Barrier Type — Porcelain Base



Cat. No.	Amps.	Dimens. Inches			Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
		Lgth.	Wdth.	Hght.				
3929	1-30	3 7/8	1 1/2	1 1/2	5	50	25	\$48.00
3930	31-60	5	1 3/4	2 3/8	2	50	25	96.00

Double-Pole, Main

Cat. No.	Amps.	Dimens. In.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1917	1-30	3 7/8 x 2 1/8	5	50	40	\$65.00
1918	31-60	5 x 3 5/8	2	50	117	150.00

Double-Pole, Single-Branch

Cat. No.	Amps.	Dimens. In.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1919	1-30	4 1/8 x 2 1/8	1	50	72	120.00
1920	31-60	6 1/8 x 3 5/8	1	50	165	230.00

Triple-Pole, Main

Cat. No.	Amps.	Dimens. In.	Car-ton	Std. Pkg.	Pkg. Wt.	Price Per 100
1924	1-30	3 7/8 x 4 1/8	5	50	63	\$90.00
1925	31-60	5 x 5 1/8	1	50	155	220.00

BUSS ONE-TIME FUSES
NON-RENEWABLE

1 to 60 ampere



70 to 600 ampere

Carry Underwriters' Laboratories Inspected label. But fuses cannot be judged by this label alone. It only shows they meet minimum requirements of safety.

Fuses can fail in many other ways. When one blows needlessly because of a badly soldered link—or because of heating from crooked terminals or caps—or from corrosion of link—the user pays the cost of a useless shutdown. Or when a fuse fails to blow quickly enough because of an inaccurate link, the user pays for the damage that results.

When such troubles from ordinary-run fuses kick back, the dealer pays in lost fuse orders and often loss of other business to boot.

The best guarantee of dependable protection for the user and insurance against loss of profits for the dealer is the BUSS Trade-Mark. It is KNOWN and recognized everywhere as standing for the highest quality in fuses.

BUSS One-Time fuses get the same engineering and care in manufacture as other products carrying the BUSS trade-mark—hence each and every BUSS One-Time fuse can be depended on to operate as intended.

For Voltages up to 250 Volts					For Voltages up to 600 Volts				
Symbol and Amperes	Lgth. Ins.	Car. Qty.	Price Each		Symbol and Amperes	Lgth. Ins.	Car. Qty.	Price Each	
NON 1					NOS 1				
NON 3					NOS 3				
NON 6					NOS 6				
NON 10					NOS 10				
NON 15	2	10	\$0.15		NOS 15	5	10	\$0.50	
NON 20					NOS 20				
NON 25					NOS 25				
NON 30					NOS 30				
NON 35					NOS 35				
NON 40					NOS 40				
NON 45	3	10	.30		NOS 45	5 1/2	10	.80	
NON 50					NOS 50				
NON 60					NOS 60				
NON 70					NOS 70				
NON 80	5 3/4	5	.90		NOS 80	7 3/8	5	1.80	
NON 90					NOS 90				
NON 100					NOS 100				
NON 110					NOS 110				
NON 125					NOS 125				
NON 150	7 1/4	1	2.00		NOS 150	9 5/8	1	3.50	
NON 175					NOS 175				
NON 200					NOS 200				
NON 225					NOS 225				
NON 250					NOS 250				
NON 300	8 5/8	1	3.60		NOS 300	11 5/8	1	7.00	
NON 350					NOS 350				
NON 400					NOS 400				
NON 450					NOS 450				
NON 500	10 3/4	1	5.50		NOS 500	13 3/8	1	10.00	
NON 600					NOS 600				

BUSS SUPER-LAG RENEWABLE FUSES

N. E. C. Standard



3 to 60 Amperes



70 to 600 Amperes

Reduce to extent not possible with other renewable fuses, number of shutdowns caused by needless blows. Patent fuse-case and Super-Lag link make this possible. Save time and money and decrease out-of-service losses.

Costs often cut in half on new motor installations as Code (Paragraph 4346) in many cases permits smaller size fused safety switches, fuse panels or fuse blocks if Buss Super-Lag fuses are used.

Every Buss Super-Lag fuse carries inspection label of Underwriters' Laboratories.

250-Volt Fuses				600-Volt Fuses			
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each	
REN3	5.5	\$0.40	10	RES3	18	\$1.00	
REN6	5.5	.40	10	RES6	18	1.00	
REN10	5.5	.40	10	RES10	18	1.00	
REN15	5.5	.40	10	RES15	18	1.00	
REN20	5.5	.40	10	RES20	18	1.00	
REN25	5.5	.40	10	RES25	18	1.00	
REN30	5.5	.40	10	RES30	18	1.00	
REN35	14	.80	10	RES35	36	1.60	
REN40	14	.80	10	RES40	36	1.60	
REN45	14	.80	10	RES45	36	1.60	
REN50	14	.80	10	RES50	36	1.60	
REN60	14	.80	10	RES60	36	1.60	
REN70	46	1.80	5	RES70	83	3.60	
REN80	46	1.80	5	RES80	83	3.60	
REN90	46	1.80	5	RES90	83	3.60	
REN100	46	1.80	5	RES100	83	3.60	
REN110	109	4.00	1	RES110	183	7.00	
REN125	109	4.00	1	RES125	183	7.00	
REN150	109	4.00	1	RES150	183	7.00	
REN175	109	4.00	1	RES175	183	7.00	
REN200	109	4.00	1	RES200	183	7.00	
REN225	266	7.20	1	RES225	373	14.00	
REN250	266	7.20	1	RES250	373	14.00	
REN300	266	7.20	1	RES300	373	14.00	
REN350	266	7.20	1	RES350	373	14.00	
REN400	266	7.20	1	RES400	373	14.00	
REN450	389	11.00	1	RES450	573	20.00	
REN500	389	11.00	1	RES500	573	20.00	
REN600	389	11.00	1	RES600	573	20.00	

BUSS SUPER-LAG RENEWAL FUSE LINKS



3 to 60 Amperes



70 to 600 Amperes

Super-Lag design gives BUSS Links a long time-lag that reduces number of blows on starting currents or other harmless overloads.

Give better protection because they permit fusing nearer to load.

Come in one piece in all sizes. This makes renewal handy and prevents poor contact developing while fuse is in use.

Packed in small quantity in sealed boxes for convenience and to prevent dust, moisture or oxidation from affecting them.

Interchangeable with all makes of standard fuse links.

250-Volt Links				600-Volt Links			
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each	
LKN3	.25	\$0.02	20	LKS3	1	\$0.05	
LKN6	.25	.02	20	LKS6	1	.05	
LKN10	.25	.02	20	LKS10	1	.05	
LKN15	.25	.02	20	LKS15	1	.05	
LKN20	.25	.02	20	LKS20	1	.05	
LKN25	.25	.02	20	LKS25	1	.05	
LKN30	.25	.02	20	LKS30	1	.05	
LKN35	1	.04	20	LKS35	3	.08	
LKN40	1	.04	20	LKS40	3	.08	
LKN45	1	.04	20	LKS45	3	.08	
LKN50	1	.04	20	LKS50	3	.08	
LKN60	1	.04	20	LKS60	3	.08	
LKN70	2	.09	10	LKS70	5	.18	
LKN80	2	.09	10	LKS80	5	.18	
LKN90	2	.09	10	LKS90	5	.18	
LKN100	2	.09	10	LKS100	5	.18	
LKN110	5	.20	5	LKS110	14	.35	
LKN125	5	.20	5	LKS125	14	.35	
LKN150	5	.20	5	LKS150	14	.35	
LKN175	5	.20	5	LKS175	14	.35	
LKN200	5	.20	5	LKS200	14	.35	
LKN225	11	.36	5	LKS225	29	.70	
LKN250	11	.36	5	LKS250	29	.70	
LKN300	11	.36	5	LKS300	29	.70	
LKN350	11	.36	5	LKS350	29	.70	
LKN400	11	.36	5	LKS400	29	.70	
LKN450	16	.55	2	LKS450	37	1.00	
LKN500	16	.55	2	LKS500	37	1.00	
LKN600	16	.55	2	LKS600	37	1.00	

BUSS Clear Window PLUG FUSES

Carry Underwriters' Laboratories inspected label.

Buss fuses have an extra large, clear window which makes it easy to see if fuse is blown.

Metal cap protects fuse against chipping that might cut fingers or weaken fuse. Buss fuses are shockproof — insulated with porcelain and mica like high voltage power lines. They will always fit in holder as there is no solder lump on outside to cause trouble.

Packed 5 in a colorful carton that carries complete information on why fuses blow and what to do when they do blow.



Sym- bol	Amp.	Wt. Lbs. Per 1000	Price Each	Sym- bol	Amp.	Wt. Lbs. Per 1000	Price Each
W1	1	65	\$0.08	W10	10	65	\$0.07
W3	3	65	.08	W15	15	65	.07
W5	5	65	.08	W20	20	65	.07
W6	6	65	.08	W25	25	65	.07
W8	8	65	.08	W30	30	65	.07

15 to 30 AMP. FUSETRON**dual-element Plug Fuses**

15 ampere Fusetron dual-element fuses provide safe protection. They won't blow on motor-starting current or any current which lasts only a short time, because of their thermal element, yet they protect on dangerous overloads or short-circuits.

20 and 25 amp. sizes for use on appliance circuits or mains give the same kind of protection against useless blows. Carry Underwriters' Laboratories inspected label. For voltages up to 125. Packed 4 in a colorful carton.

Amp.	Symbol	Price	Amp.	Symbol	Price
15	T15	\$0.10	25	T25	\$0.10
20	T20	.10	30	T30	.10

Packed 4 in a box.

BUSS -TYPE S- FUSTATS**15 TO 30 AMP.—FOR CIRCUIT PROTECTION**

Operates like Fusetron dual-element Plug Fuses
Non-tamperable (Type S) Base

The Fustat is Bussmann's dual element fuse with type "S" base. It has a fuse link and a thermal cutout. Makes safe protection remain safe. Stops loss of money on needless "blown-fuse" service calls. Stops use of pennies or slugs; practically impossible to bridge with tinfoil, wire or any other material. A 20, 25, or 30 ampere size will not fit in a 15-ampere receptacle or adapter. Can be used in Edison base receptacles by use of adapter. Adapters not included with Fustats, must be ordered separately. Listed by Underwriter's Laboratories as Type S fuses, in 15 to 30 amp. sizes. For circuit protection on voltages up to 125.



Fustat



Adapter

FUSTAT			ADAPTER		
Amp.	Symbol	Price	Symbol	Price	
15	S15	\$0.10	SA15	\$0.07 1/2	
20	S20	.10	SA20	.07 1/2	
25	S25	.10	SA30	.07 1/2	
30	S30	.10			

0 to 14 AMPERE BUSS FUSTATS

To Protect Against Burned-Out Motors and Apparatus of Voltages up to 125



Fustat



Adapter

Protect motors against burnout from such things as dry bearings, overload, etc. Prevent costly repair bills.

For size to use, get ampere rating of motor or apparatus from name plate, and install a Fustat of a size nearest to that figure. Then if device is in danger of burnout, the Fustat will open. Also protects like a fuse against short-circuit.

Have non-tamperable base — which prevents anyone replacing them with a penny or readily bridging them — and prevents the use of sizes too large to protect.

Fustats fit all regular plug fuse holders through the use of an inexpensive adapter which locks in place.

Carry Underwriters' Laboratories Label and have the same degree of approval for motor-running protection as the most expensive devices made.

Packed 4 in a carton, carrying complete instructions.

FUSTAT			ADAPTER		
Amp.	Symbol	Price	Symbol	Price	
1	S1	\$0.20	SA1	\$0.07 1/2	
1 1/4	S1 1/4	.20	SA1 1/4	.07 1/2	
1 5/8	S1 5/8	.20	SA1 5/8	.07 1/2	
2	S2	.20	SA2	.07 1/2	
2 1/2	S2 1/2	.20	SA2 1/2	.07 1/2	
3 5/8	S3 5/8	.20	SA3 5/8	.07 1/2	
4	S4	.20	SA4	.07 1/2	
5	S5	.20	SA5	.07 1/2	
6 1/4	S6 1/4	.20	SA6 1/4	.07 1/2	
8	S8	.20	SA8	.07 1/2	
10	S10	.20	SA10	.07 1/2	
12	S12	.20	SA15	.07 1/2	
14	S14	.20	SA15	.07 1/2	

Many other sizes from 3/10 to 9 amperes can be obtained. Adapters not included with Fustats — must be ordered separately.

0 to 14 AMP. FUSETRON dual-element PLUG FUSES

Fusetron fuses, like Fustats, can be used to protect motors or apparatus against burnout. Have Edison base — hence insurance and inspection authorities and Underwriters' Laboratories do not recommend their use because all protection is lost if Fusetron or ordinary fuses of too large a size are used. Fustats, because of their non-tamperable feature, are recommended for this work.



Amp.	Symbol	Price	Amp.	Symbol	Price
1	T1	\$0.20	5	T5	\$0.20
1 1/4	T1 1/4	.20	6 1/4	T6 1/4	.20
1 5/8	T1 5/8	.20	8	T8	.20
2	T2	.20	10	T10	.20
2 1/2	T2 1/2	.20	12	T12	.20
3 5/8	T3 5/8	.20	14	T14	.20
4	T4	.20	-----	-----	-----

Packed 4 in a carton, weight 7.7 lbs. per 100.

FUSETRON dual-element FUSES 250 AND 600 VOLT



Made to fit ordinary fuse holders. A Fusetron dual-element fuse has a fuse link element to protect against short-circuits and a thermal cutout element to protect against overloads. It has tremendous time-lag and much less electrical resistance.

For all types of circuits or feeders (motor as well as lighting, etc.) they are highly desirable. Their long time-lag prevents useless shutdowns caused by ordinary fuses or breakers opening on motor starting currents or other harmless overloads. They will hold even if all motors on circuit start at one time — yet they protect against short-circuit with all the speed of a fuse.

Their lower resistance means that switches and panelboards will operate at a much cooler temperature than with other fuses. This prevents damage and wipes out needless blowing of fuses so often caused by excessive heating.

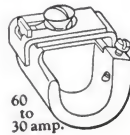
Fusetron dual-element fuses carry Underwriters' Laboratories label and are approved for both motor-running and circuit protection.

250 Volt				600 Volt			
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton
FRN 1/10	3 1/2	\$0.25	10	FRS 1/10	14	\$0.65	
FRN 15/100	3 1/2	.25	10	FRS 15/100	14	.65	
FRN 2/10	3 1/2	.25	10	FRS 2/10	14	.65	
FRN 3/10	3 1/2	.25	10	FRS 3/10	14	.65	
FRN 4/10	3 1/2	.25	10	FRS 4/10	14	.65	
FRN 1/2	3 1/2	.25	10	FRS 1/2	14	.65	
FRN 6/10	3 1/2	.25	10	FRS 6/10	14	.65	
FRN 8/10	3 1/2	.25	10	FRS 8/10	14	.65	
FRN 1	3 1/2	.25	10	FRS 1	14	.65	
FRN 1 1/8	3 1/2	.25	10	FRS 1 1/8	14	.65	
FRN 1 1/4	3 1/2	.25	10	FRS 1 1/4	14	.65	
FRN 1 4/10	3 1/2	.25	10	FRS 1 4/10	14	.65	
FRN 1 6/10	3 1/2	.25	10	FRS 1 6/10	14	.65	
FRN 1 8/10	3 1/2	.25	10	FRS 1 8/10	14	.65	
FRN 2	3 1/2	.25	10	FRS 2	14	.65	
FRN 2 1/4	3 1/2	.25	10	FRS 2 1/4	14	.65	
FRN 2 1/2	3 1/2	.25	10	FRS 2 1/2	14	.65	
FRN 2 8/10	3 1/2	.25	10	FRS 2 8/10	14	.65	
FRN 3 2/10	3 1/2	.25	10	FRS 3 2/10	14	.65	
FRN 3 1/2	3 1/2	.25	10	FRS 3 1/2	14	.65	
FRN 4	3 1/2	.25	10	FRS 4	14	.65	
FRN 4 1/2	3 1/2	.25	10	FRS 4 1/2	14	.65	
FRN 5	3 1/2	.25	10	FRS 5	14	.65	
FRN 5 6/10	3 1/2	.25	10	FRS 5 6/10	14	.65	
FRN 6 1/4	3 1/2	.25	10	FRS 6 1/4	14	.65	
FRN 7	3 1/2	.25	10	FRS 7	14	.65	
FRN 8	3 1/2	.25	10	FRS 8	14	.65	
FRN 9	3 1/2	.25	10	FRS 9	14	.65	
FRN 10	3 1/2	.25	10	FRS 10	14	.65	
FRN 12	5	.25	10	FRS 12	16	.65	
FRN 15	5	.25	10	FRS 15	16	.65	
FRN 17 1/2	5	.25	10	FRS 17 1/2	16	.65	
FRN 20	5	.25	10	FRS 20	16	.65	
FRN 25	5	.30	10	FRS 25	16	.75	
FRN 30	5	.30	10	FRS 30	16	.75	
FRN 35	12	.60	10	FRS 35	26	1.35	
FRN 40	12	.60	10	FRS 40	26	1.35	
FRN 45	12	.60	10	FRS 45	26	1.35	
FRN 50	12	.60	10	FRS 50	26	1.35	
FRN 60	12	.60	10	FRS 60	26	1.35	
FRN 70	35	1.45	5	FRS 70	56	2.75	
FRN 80	35	1.45	5	FRS 80	56	2.75	
FRN 90	35	1.45	5	FRS 90	56	2.75	
FRN 100	35	1.45	5	FRS 100	56	2.75	
FRN 110	88	3.10	1	FRS 110	125	5.50	
FRN 125	88	3.10	1	FRS 125	125	5.50	
FRN 150	88	3.10	1	FRS 150	125	5.50	

FUSETRON dual-element FUSES 250 AND 600 VOLT

250 Volt				600 Volt			
Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton	Symbol and Amperes	Wt. Lbs. Per 100	Price Each	Carton
FRN 175	88	3.10	1	FRS 175	125	5.50	
FRN 200	88	3.10	1	FRS 200	125	5.50	
FRN 225	182	5.70	1	FRS 225	305	10.50	
FRN 250	182	5.70	1	FRS 250	305	10.50	
FRN 300	182	5.70	1	FRS 300	305	10.50	
FRN 350	182	5.70	1	FRS 350	305	10.50	
FRN 400	182	5.70	1	FRS 400	305	10.50	
FRN 450	304	8.50	1	FRS 450	480	15.00	
FRN 500	304	8.50	1	FRS 500	480	15.00	
FRN 600	304	8.50	1	FRS 600	480	15.00	

BUSS FUSE REDUCERS



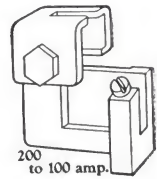
Make it possible to use Fusetron or ordinary fuses of a size smaller than the fuse clips are intended to hold.

Fit in any panel or switch as reducers, take up no more space than would a fuse of a size to fit clips.

Poor contact troubles are entirely eliminated because these reducers provide clamp contact throughout.

Reducers fit any form of clip, either the spring type or clamp type.

Packed—one pair in a carton.



Volts	Amp. Rating	No.	Price per pair
250 Volt	60 to 30	263	\$0.60
250 Volt	100 to 30	213	1.15
250 Volt	100 to 60	216	.85
250 Volt	200 to 60	226	2.50
600 Volt	60 to 30	663	.70
600 Volt	100 to 30	Use No. 216	
600 Volt	100 to 60	616	1.40
600 Volt	200 to 60	626	4.15
250 or 600 V.	200 to 100	2621	1.65
250 or 600 V.	400 to 200	2642	2.60

BUSS CLIP-CLAMPS

Insure Good Contact Between Clips and Fusetron or Ordinary Fuses

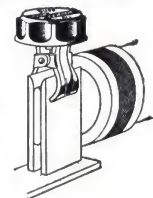


Prevent needless blowing of fuses by eliminating heating from poor contact that often causes fuses to blow.

Reduce needless destruction of fuse-cases by preventing poor contact from burning up the fibre tube and destroying the fuse.

Makes replacement of fuse-clips unnecessary. Generally permits even injured clips to be used with perfect satisfaction.

Built for hard service and to prevent corrosion, all steel parts are heavily cadmium plated.



Cat. No.	Size of Clamp	Carton Qty.	Wt. Lbs. Per 100	Price Each
1	0- 30 amp. 250 volt	12	5	\$0.40
2	{ 31- 60 amp. 250 volt } { 0- 30 amp. 600 volt }	12	8	.60
4	31- 60 amp. 600 volt	12	12	.85
5	61-100 amp. 250or600V.	12	10	.75
6	101-200 amp. 250or600V.	6	21	1.25
7	201-400 amp. 250or600V.	6	31	1.75
8	401-600 amp. 250or600V.	6	42	2.50

TRUMBULL HEAVY-DUTY SAFETY SWITCHES

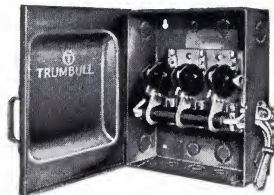
TYPE A—STYLE A—SINGLE THROW

Quick Make and Quick Break—Interlocking Cover



Fusible

Enclosure: General Purpose
NEMA — Type 1.
Finish: Machine Grey.



No Fuse

FUSIBLE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
30	2	230 AC, 2 HP 250 DC, 5 HP	72221	\$17.50
		600 DC, 7½ HP	72261	29.00
	3	230 AC, 3 HP 575 AC, 7½ HP	72321 72361	22.00 34.00
		230 3 Ø, 3 HP	72321SN	20.00
	4	230 AC, 3 HP 575 AC, 7½ HP	72421 72461	31.00 42.00
		230 AC, 3 HP	72421SN	29.00
60	2	230 AC, 5 HP 250 DC, 10 HP	72222	23.00
		600 DC, 15 HP	72262	31.00
	3	230 AC, 7½ HP 575 AC, 20 HP	72322 72362	31.00 36.00
		230 3 Ø, 7½ HP	72322SN	26.00
	4	230 AC, 10 HP 575 AC, 20 HP	72422 72462	37.00 45.00
		230 AC, 7½ HP	72422SN	36.00
100	2	230 AC, 10 HP 250 DC, 15 HP	72223	36.00
		600 DC, 25 HP	72263	47.00
	3	230 AC, 15 HP 575 AC, 30 HP	72323 72363	47.00 54.00
		230 3 Ø, 15 HP	72323SN	42.00
	4	230 AC, 20 HP 575 AC, 30 HP	72423 72463	62.00 72.00
		230 AC, 15 HP	72423SN	56.00
200	2	230 AC, 15 HP 250 DC, 30 HP	72224	59.00
		600 DC, 50 HP	72264	70.00
	3	230 AC, 30 HP 575 AC, 50 HP	72324 72364	70.00 87.00
		230 3 Ø, 30 HP	72324SN	65.00
	4	230 AC, 30 HP 575 AC, 50 HP	72424 72464	110.00 121.00
		230 AC, 30 HP	72424SN	83.00
400	2	230 AC, 25 HP 250 DC, 50 HP 600 AC or DC	72225 72265	134.50 164.00
		230 AC, 50 HP 575 AC	72325 72365	153.00 178.00
	3	230 3 Ø, 50 HP	72325SN	149.00
		230 AC, 50 HP 575 AC	72425 72465	209.00 231.00
	4	230 AC, 50 HP	72425SN	172.00
		250 AC or DC 600 AC or DC	72226 72266	215.00 260.00
600	3	230 AC 575 AC	72326 72366	262.00 297.00
		230 AC	72326SN	239.00
	4	230 AC 575 AC	72426 72466	360.00 375.00
		230 AC	72426SN	286.00

TRUMBULL HEAVY-DUTY SAFETY SWITCHES

TYPE A—STYLE A—SINGLE THROW

FUSIBLE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
†800	2	250 AC or DC 600 AC or DC	72227 72267	328.00 402.00
		230 AC 575 AC	72327 72367	447.00 520.00
	3	230 AC	72327SN	358.00
		230 AC 575 AC	72427 72467	675.00 688.00
	4	230 AC	72427SN	642.00
		250 AC or DC 600 AC or DC	72228 72268	454.00 565.00
†1200	3	230 AC 575 AC	72328 72362	573.00 684.00
		230 AC	72328SN	506.00
	4	230 AC 575 AC	72428 72468	825.00 965.00
		230 AC	72428SN	788.00
	4SN			

† Twin Lugs per Pole.

NO FUSE

30	2	230 AC, 3 HP 250 DC, 5 HP	36221	\$16.50
		600 DC, 7½ HP	36261	20.00
	3	230 AC, 5 HP 575 AC, 10 HP	36321 36361	20.00 23.00
		230 AC, 5 HP 575 AC, 10 HP	36461	29.00
60	2	230 AC, 7½ HP 250 DC, 10 HP	36222	22.00
		600 DC, 15 HP	36262	25.00
	3	230 AC, 10 HP 575 AC, 25 HP	36362	29.00
		230 AC, 15 HP 575 AC, 25 HP	36462	37.00
100	2	230 AC, 15 HP 250 DC, 15 HP	36223	35.00
		600 DC, 25 HP	36263	42.00
	3	230 AC, 20 HP 575 AC, 40 HP	36363	44.00
		230 AC, 25 HP 575 AC, 40 HP	36463	67.00
200	2	230 AC, 25 HP 250 DC, 30 HP	36224	50.00
		600 DC, 50 HP	36264	54.00
	3	230 AC, 40 HP 575 AC, 50 HP	36364	57.00
		230 AC, 50 HP 575 AC, 50 HP	36464	105.00
400	2	250 DC, 50 HP 600 AC or DC	36225 36265	94.00 134.00
		230 AC, 50 HP 575 AC	36365	149.00
	3	230 AC, 50 HP 575 AC	36465	194.00
		250 AC or DC 600 AC or DC	36226 36266	184.00 194.00
600	3	575 AC	36366	239.00
		575 AC	36466	337.00
	4	250 AC or DC 600 AC or DC	36227 36267	290.00 290.00
		575 AC	36367	387.00
†800	4	575 AC	36467	499.00
		250 AC or DC 600 AC or DC	36228 36268	395.00 395.00
	3	575 AC	36368	520.00
		575 AC	36468	684.00

† Twin Lugs per Pole.

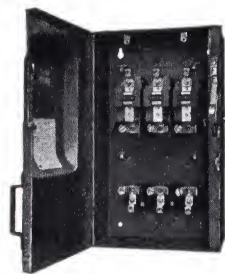
"SN" (Solid Neutral) Switches have a neutral strap between two poles. For example: No. 72221, a 2-pole switch, by the addition of this neutral strap becomes No. 72321SN, a 3-pole solid neutral switch. Exception: 3, 4 and 5-pole solid neutral switches 800-ampere and above have regular 3, 4 and 5-pole bases.

"SWN" (Switching Neutral). When Switching Neutrals are required on enclosed switches, order the standard switch of the required number of poles and use a dummy fuse in the neutral.

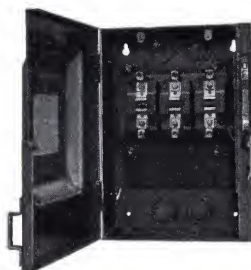
TRUMBULL HEAVY-DUTY SAFETY SWITCHES

TYPE A—STYLE RBA—SINGLE THROW

Quick Make and Quick Break—Interlocking Cover



Fusible



No Fuse

FUSIBLE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
30	2	230 AC, 2 HP	66221	\$17.50
		250 DC, 5 HP		
	3	600 DC, 7½ HP	66261	29.00
		230 AC, 3 HP	66321	22.00
60	2	575 AC, 7½ HP	66361	34.00
		230 AC, 5 HP	66222	23.00
	3	250 DC, 10 HP		
		600 DC, 15 HP	66262	31.00
100	2	230 AC, 7½ HP	66322	31.00
		575 AC, 20 HP	66362	36.00
	3	230 AC, 10 HP	66223	36.00
		250 DC, 15 HP		
200	2	600 DC, 25 HP	66263	47.00
		230 AC, 15 HP	66323	47.00
	3	575 AC, 30 HP	66363	54.00
		230 AC, 15 HP	66224	59.00
400	2	250 DC, 30 HP		
		575 AC, 25 HP	66264	70.00
	3	600 DC, 50 HP	66324	70.00
		575 AC, 50 HP	66364	87.00
600	2	230 AC, 25 HP	66225	134.00
		250 DC, 50 HP	66265	161.00
	3	600 AC or DC	66325	153.00
		575 AC	66365	178.00

NO FUSE

30	2	230 AC, 3 HP	33221	\$16.50
		250 DC, 5 HP		
	3	600 DC, 7½ HP	33261	20.00
		230 AC, 5 HP	33361	23.00
60	2	575 AC, 10 HP		
		230 AC, 7½ HP	33222	22.00
	3	250 DC, 10 HP	33262	25.00
		600 DC, 15 HP	33362	29.00
100	2	230 AC, 10 HP	33223	35.00
		250 DC, 15 HP		
	3	600 DC, 25 HP	33263	42.00
		230 AC, 20 HP	33363	44.00
200	2	575 AC, 40 HP		
		230 AC, 25 HP	33224	50.00
	3	250 DC, 30 HP	33264	54.00
		600 DC, 50 HP	33364	57.00
400	2	230 AC, 40 HP	33225	94.00
		575 AC, 50 HP	33265	134.00
	3	250 DC, 50 HP	33225	94.00
		600 AC or DC	33265	134.00

Solderless Lugs standard on all switches listed above on which lugs are normally furnished.

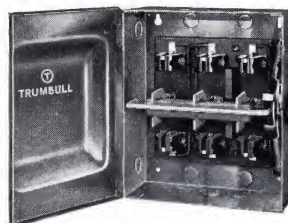
"SWN" (Switching Neutral). When Switching Neutrals are required on enclosed switches, order the standard switch of the required number of poles and use a dummy fuse in the neutral.

TRUMBULL HEAVY-DUTY SAFETY SWITCHES

TYPE A—STYLE A

MOTOR REVERSING SWITCH

No Fuse



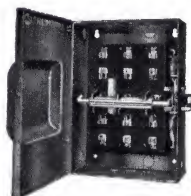
Amperes	No. of Poles	Voltage	Cat. No.	Wt. Lbs. Each	List Each
30	2	250 AC or DC	87221	12	\$24.00
	3	230 AC	87321	16	33.00
30-60	2	575 AC	87262	22	39.00
	3	575 AC	87362	25	52.00
100	2	575 AC	87263	37	64.00
	3	575 AC	87363	45	86.00
200	2	575 AC	87264	55	90.00
	3	575 AC	87364	76	136.00

TYPE A—STYLE A—DOUBLE-THROW

Quick Make and Break—Interlocking Cover

Enclosure: General Purpose NEMA Type 1

Finish: Machine Grey



Fusible



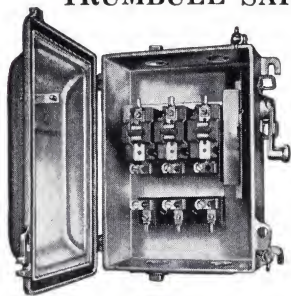
No Fuse

Amp.	Poles	Voltage	FUSIBLE		NO FUSE	
			Cat. No.	List Each	Cat. No.	List Each
30	2	250†	70221	\$33.00	35221	\$20.00
		575 AC	70261	67.00	35262	36.00
	3	230 AC	70321	36.00	35321	24.00
		575 AC	70361	70.00	35362	39.00
60	2	230 AC	70421	50.00	35421	35.00
		575 AC	70461	106.00	35462	55.00
	3	250†	70222	59.00	35222	32.00
		575 AC	70262	69.00	35262	36.00
100	2	230 AC	70322	65.00	35322	36.00
		575 AC	70362	73.00	35362	39.00
	3	230 AC	70422	80.00	35422	55.00
		575 AC	70462	109.00	35462	55.00
200	2	250†	70223	90.00	35223	47.00
		575 AC	70263	120.00	35263	52.00
	3	230 AC	70323	109.00	35323	58.00
		575 AC	70363	128.00	35363	63.00
400	2	230 AC	70423	128.00	35423	117.00
		575 AC	70463	189.00	35463	117.00
	3	250†	70224	125.00	35224	63.00
		575 AC	70264	145.00	35264	70.00
600	2	230 AC	70324	165.00	35324	91.00
		575 AC	70364	193.00	35364	97.00
	3	230 AC	70424	209.00	35424	156.00
		575 AC	70464	244.00	35464	156.00
*400	2	250†	70225	254.00	35225	178.00
		575 AC	70265	274.00	35265	201.00
	3	230 AC	70325	349.00	35325	240.00
		575 AC	70365	358.00	35365	253.00
*600	2	230 AC	70425	387.00	35425	350.00
		575 AC	70465	549.00	35465	350.00
	3	250†	70226	316.00	35226	253.00
		575 AC	70266	422.00	35266	283.00
*800	2	230 AC	70326	422.00	35326	333.00
		575 AC	70366	459.00	35366	366.00
	3	230 AC	70426	499.00	35426	454.00
		575 AC	70466	718.00	35466	454.00

†AC or DC. *400 and 600 amp. Quick Break only.

SCHEDULE A

TRUMBULL SAFETY SWITCHES



Fusible

TYPE A—STYLE RBA
SINGLE THROWNEMA Types 4 and 5
Cast Iron EnclosureQuick make and
quick break — Inter-
locking cover —
Solderless lugs.Finish: Machine
grey.

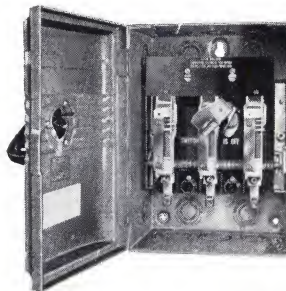
FUSIBLE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	Approx. Wt., Lbs.	List Each
30	2	230 AC, 2 HP 250 DC, 5 HP	68221C	26	\$65.00
		600 DC, 7½ HP	68261C	33	81.00
	3	230 AC, 3 HP 575 AC, 7½ HP	68321C 68361C	26 35	73.00 88.00
60	2	230 AC, 5 HP 250 DC, 10 HP	68222C	34	69.00
		600 DC, 15 HP	68262C	98	86.00
	3	230 AC, 7½ HP 575 AC, 20 HP	68322C 68362C	49 103	80.00 95.00
100	2	230 AC, 10 HP 250 DC, 15 HP	68223C	118	179.00
		600 DC, 25 HP	68263C	120	193.00
	3	230 AC, 15 HP 575 AC, 30 HP	68323C 68363C	120 164	197.00 207.00
200	2	230 AC, 15 HP 250 DC, 30 HP	68224C	175	264.00
		600 DC, 50 HP	68264C	120	277.00
	3	230 AC, 30 HP 575 AC, 50 HP	68324C 68364C	240 200	284.00 290.00
400	2	230 AC, 25 HP 250 DC, 50 HP	68225C	200	535.00
		600 AC, or DC	68265C	250	554.00
	3	230 AC, 50 HP 575 AC	68325C 68365C	250	554.00 574.00

NO FUSE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	Approx. Wt., Lbs.	List Each
30	3	230 AC, 5 HP 575 AC, 10 HP 250 DC, 5 HP 600 DC, 7½ HP	34361C	25	\$73.00
60	3	230 AC, 10 HP 575 AC, 25 HP 250 DC, 10 HP 600 DC, 15 HP	34362C	46	77.00
100	3	230 AC, 20 HP 575 AC, 40 HP 250 DC, 15 HP 600 DC, 25 HP	34363C	72	194.00
200	3	230 AC, 40 HP 575 AC, 50 HP 250 DC, 30 HP 600 DC, 50 HP	34364C	160	264.00
400	3	230 AC, 50 HP 575 AC 250 DC, 50 HP 600 DC	34365C	250	528.00

All boxes furnished with two holes drilled and tapped in each end. One hole in each end closed with pipe plug. Pipe size tapped holes: 30 amp., ¼-inch; 60 amp., 1¼-inch; 100 amp., 1½-inch; 200 amp., 2½-inch; 400 amp., 3-inch.

TRUMBULL SAFETY SWITCHES
HEAVY DUTY ENCLOSED SAFETY SWITCHESTYPE A—STYLE HCI
SINGLE THROWFront Operated.
General Purpose En-
closure—Nema
Type 1.Quick Make—Quick
Break.Interlocking Cover.
Finish—Medium Light
Grey.

Removable Interior.

FUSIBLE

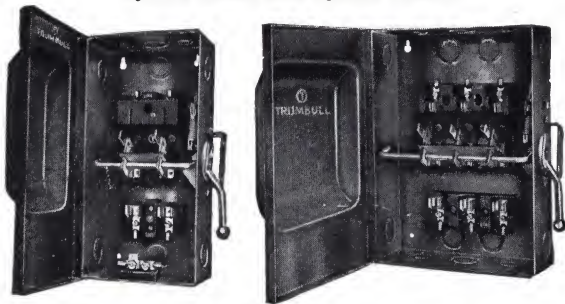
Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
30	2	230 AC, 2 HP; 250 DC, 5 HP	90221	\$17.50
		600 DC, 7½ HP	90261	29.00
	3	230 AC, 3 HP 575 AC, 7½ HP	90321 90361	22.00 34.00
	3SN	230 3 Ø, 3 HP; 250 DC, 5 HP	90321SN	20.00
	4	230 AC, 3 HP 575 AC, 7½ HP	90421 90461	31.00 42.00
	4SN	230 AC, 3 HP	90421SN	29.00
60	2	230 AC, 5 HP; 250 DC, 10 HP	90222	23.00
		600 DC, 15 HP	90262	31.00
	3	230 AC, 7½ HP 575 AC, 20 HP	90322 90362	31.00 36.00
	3SN	230 3 Ø, 7½ HP; 250 DC, 10 HP	90322SN	26.00
	4	230 AC, 10 HP 575 AC, 20 HP	90422 90462	37.00 45.00
	4SN	230 AC, 7½ HP	90422SN	36.00
100	2	230 AC, 10 HP; 250 DC, 15 HP	90223	36.00
		600 DC, 25 HP	90263	47.00
	3	230 AC, 15 HP 575 AC, 30 HP	90323 90363	47.00 54.00
	3SN	230 3 Ø, 15 HP; 250 DC, 15 HP	90323SN	42.00
	4	230 AC, 20 HP 575 AC, 30 HP	90423 90463	62.00 72.00
	4SN	230 AC, 15 HP	90423SN	56.00

"SWN" (Switching Neutral) When switching neutrals are required on enclosed switches, order the standard switch of the required number of poles and use a dummy fuse in the neutral.

NO FUSE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
30	2	230 AC, 3 HP; 250 DC, 5 HP	45221	\$16.50
		600 DC, 7½ HP	45261	20.00
	3	230 AC, 5 HP 575 AC, 10 HP	45321 45361	20.00 23.00
60	2	230 AC, 5 HP; 575 AC, 10 HP	45461	29.00
		230 AC, 7½ HP; 250 DC, 10 HP	45222	22.00
	3	600 DC, 15 HP	45262	25.00
		230 AC, 10 HP, 575 AC, 25 HP	45362	29.00
100	4	230 AC, 15 HP; 575 AC, 25 HP	45462	37.00
		230 AC, 15 HP; 250 DC, 15 HP	45223	35.00
	2	600 DC, 25 HP	45263	42.00
		230 AC, 20 HP; 575 AC, 40 HP	45363	44.00
	4	230 AC, 25 HP; 575 AC, 40 HP	45463	67.00

TRUMBULL SAFETY SWITCHES
TYPE C—SINGLE THROW—NEMA TYPE 1
Quick Make and Quick Break



Solid Neutral

Fusible — 60 Amp., 230 V.

FUSIBLE

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
30	2	230 AC, 2 HP; 250 DC, 5 HP	40221A	\$ 9.90
	3	230 AC, 3 HP	40321A	12.00
		575 AC, 7½ HP	40361	21.00
	3SN	230 AC, 3 Ø, 3 HP	41321A	11.00
	4	230 AC, 3 HP	40421	23.00
60		575 AC, 7½ HP	40461	34.00
	4SN	230 AC, 3 HP	41421A	15.50
	2	230 AC, 5 HP; 250 DC, 10 HP	40222	17.50
	3	230 AC, 7½ HP	40322	22.00
		575 AC, 20 HP	40362	25.00
100	3SN	230 AC, 3 Ø, 7½ HP	41322	18.50
	4	230 AC, 10 HP	40422	32.00
		575 AC, 20 HP	40462	39.00
	4SN	230 AC, 7½ HP	41422	25.00
	2	230 AC, 10 HP; 250 DC, 15 HP	40223	28.00
200	3	230 AC, 15 HP	40323	34.00
		575 AC, 30 HP	40363	46.00
	3SN	230 AC, 3 Ø, 15 HP	41323	29.00
	4	230 AC, 20 HP	40423	52.00
		575 AC, 30 HP	40463	69.00
400	4SN	230 AC, 15 HP	41423	40.00
	2	230 AC, 15 HP; 250 DC, 30 HP	40224	42.00
	3	230 AC, 30 HP	40324	58.00
		575 AC, 50 HP	40364	69.00
	3SN	230 AC, 3 Ø, 30 HP	41324	53.00
600	4	230 AC, 30 HP	40424	94.00
		575 AC, 50 HP	40464	112.00
	4SN	230 AC, 30 HP	41424	69.00
	2	230 AC, 25 HP; 250 DC, 50 HP	40225	106.00
	3	230 AC, 50 HP	40325	122.00
800		575 AC, 75 HP	40365	148.00
	3SN	230 AC, 3 Ø, 50 HP	41325	116.00
	4	230 AC, 50 HP	40425	174.00
	4SN	230 AC, 50 HP	41425	149.00
	2	250 AC or DC	40226	209.00
1000	3	230 AC	40326	241.00
	3SN	230 AC	41326	224.00
	4	230 AC	40426	319.00
	4SN	230 AC	41426	266.00

NO FUSE

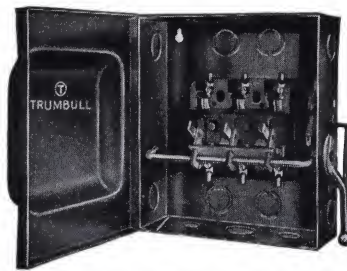
30	2	230 AC, 3 HP; 250 DC, 5 HP	20221A	\$ 8.80
	3	230 AC, 5 HP	20321A	11.00
		575 AC, 10 HP	20361	15.50
	4	230 AC, 5 HP	20421	20.00
60		575 AC, 10 HP	20461	24.00
	2	230 AC, 7½ HP; 250 DC, 10 HP	20222	15.50
	3	230 AC, 10 HP	20322	20.00
		575 AC, 25 HP	20362	21.00
100	4	230 AC, 15 HP	20422	26.00
		575 AC, 25 HP	20462	34.00

Solderless Lugs standard on all switches on which lugs are normally furnished.

"SN" (Solid Neutral) Switches furnished with insulated groundable neutral, 30 to 100-amp. inclusive: 200-amp. and above, insulated neutral only with lug for grounding, if desired.

"SWN" (Switching Neutral). When Switching Neutrals are required on enclosed switches, order the standard switch of the required number of poles and use a dummy in the neutral.

TRUMBULL SAFETY SWITCHES
TYPE C — SINGLE THROW
Quick Make and Quick Break



No Fuse — 60 Amp., 230 V.

Enclosure: General Purpose NEMA Type 1.
 Finish: Machine Grey.

NO FUSE—Continued

Amp.	Poles	Voltage and Max. HP Rating	Cat. No.	List Each
100	2	230 AC, 15 HP; 250 DC, 15 HP	20223	\$ 26.00
	3	230 AC, 20 HP	20323	30.00
		575 AC, 40 HP	20363	39.00
	4	230 AC, 25 HP	20423	50.00
200		575 AC, 40 HP	20463	63.00
	2	230 AC, 25 HP; 250 DC, 30 HP	20224	35.00
	3	230 AC, 40 HP	20324	48.00
		575 AC, 50 HP	20364	53.00
400	4	230 AC, 50 HP	20424	88.00
		575 AC, 50 HP	20464	90.00
600	2	250 DC, 50 HP	20225	88.00
	3	230 AC, 50 HP	20325	106.00
800	2	250 AC or DC	20226	165.00
	3	230 AC	20326	216.00



TYPE C ENCLOSED SWITCHES
SINGLE THROW

RAINTIGHT—NEMA TYPE 3

Fusible. Side operated. Finish: Medium light grey.

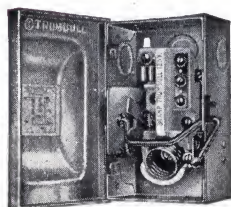
Amp.	Poles	Blades	Fuses	Voltage and Max. HP Rating	Cat. No.	List Price Without Hub
3	3	2	2	125-250	W13321SN	\$ 18.50
	3	3	3	230 AC, 3 HP	W13321	22.00
	3	3	3	575 AC, 7½ HP	W40361	36.00
60	3	2	2	125-250	W41322	34.00
	3	3	3	230 AC, 7½ HP	W40322	35.00
	3	3	3	575 AC, 20 HP	W40362	42.00
100	3	2	2	125-250	W41323	46.00
	3	3	3	230 AC, 15 HP	W40323	51.00
	3	3	3	575 AC, 30 HP	W40363	65.00
200	3	2	2	125-250	W41324	64.00
	3	3	3	230 AC, 30 HP	W40324	68.00
	3	3	3	575 AC, 50 HP	W40364	89.00
400	3	2	2	125-250	W41325	152.00
	3	3	3	230 AC	W40325	155.00
	3	3	3	575 AC	*W72365	211.00

*This device uses Type A construction.

HUB DESCRIPTION

Add Suffix to Cat. No.	Addition for Hubs	Add Suffix to Cat. No.	Addition for Hubs	Add Suffix to Cat. No.	Addition for Hubs
¾"—C	\$1.70	1½"—G	\$2.80	3"—J	\$ 7.70
1"—D	1.70	2"—H	2.80	3½"—Y	13.00
1¼"—E	1.70	2½"—W	4.40		

TRUMBULL ENCLOSED SWITCHES
TYPE D
SINGLE THROW—SIDE OPERATED
 General Purpose Enclosure—NEMA Type 1
 Finish: Machine Grey



No. 24111



No. 23322

Amp.	Poles	Blades	Fuse	Volts	Cat. No.	List Each
Fusible — Plug Fuses						
30	2	2	2	125-250	24211 •27211	4.40 4.40
	2SN	1	1	125	24111 23111	2.95 2.95
	3	3	3	125-250	24311 •27311	6.60 6.60
	3SN	2	2	125-250	23311 •25311	3.85 3.85
	Fusible — Cartridge Fuses					
	2	2	2	250	24221 •27221	4.40 4.40
30	3	3	3	230 AC	24321 •27321	8.25 8.25
	3SN	2	2	125-250, 230 AC	23321 •25321	5.50 5.50
	4SN	3	3	230 AC	23421	11.00
	2	2	2	250	24222	9.35
60	3	3	3	230 AC	24322 •27322	13.00 13.00
	3SN	2	2	125-250, 230 AC	23322 •25322	9.35 9.35
	4SN	3	3	230 AC	23422	22.00
	2	2	2	250	24223	21.00
100	3	3	3	230 AC	24323 •27323	24.00 24.00
	3SN	2	2	125-250, 230 AC	23323 •25323	22.00 22.00
	4SN	3	3	230 AC	23423	36.00
	2	2	2	250	24224	39.00
200	3	3	3	230 AC	24324 •27324	53.00 53.00
	3SN	2	2	125-250, 230 AC	23324 •25324	48.00 48.00
	4SN	3	3	230 AC	23424	65.00
No Fuse						
30	2	2	0	250	12221	3.30
	3	3	0	230 AC	12321	6.05
60	2	2	0	250	12222	9.90
	3	3	0	230 AC	12322	12.20
100	2	2	0	250	12223	20.00
	3	3	0	230 AC	12323	22.00
200	2	2	0	250	12224	29.00
	3	3	0	230 AC	12324	39.00

•Top ends are furnished with twistouts to take standardized meters.

‡Base mounted on saddle, entire unit easily removed.

“SN” (Solid Neutral) switches are furnished with insulated groundable neutral 30-100 inclusive. 200 Amp. and above insulated neutral only with lug for grounding.

TRUMBULL ENCLOSED SWITCHES
TYPE D
SINGLE THROW—SIDE OPERATED
 Rain Tight Enclosure—NEMA Type 3
 Finish: Machine Grey



No. 24111WPC

Prices shown are for Enclosures without hubs. Hubs can be furnished at the following additions. In ordering designate hub size by assigning letter to Cat. No.

Amp	Hub Size	Suffix	List Addition
30	3/4	C	\$1.50
30	1	D	1.50
60	1 1/4	E	1.50
100	2	H	2.50

FUSIBLE						
Amp.	Poles	Blades	Fuse	Volts	Cat. No.	With-out Hub
30	2	1	1P.	125	24111WP	\$7.10
	2	2	2P.	125-250	24211WP	7.65
	3	2	2P.	125-250	23311WP	8.20
	2	2	2C.	250	24221WP	8.20
	3	2	2C.	125-250, 230 AC	23321WP	9.35
	3	3	3C.	230 AC	24321WP	14.30
60	3	2	2	125-250, 230 AC	23322WP	17.50
	3	3	3	230 AC	24322WP	18.50
100	3	2	2	125-250, 230 AC	23323WP	32.00
	3	3	3	230 AC	24323WP	36.00
200	3	2	2	125-250, 230 AC	23324WP	59.00
	3	3	3	230 AC	24324WP	64.00

TYPE D 30 AMPERE
FRONT OPERATED SWITCHES



Designed primarily for Service Entrance and for general purpose use.

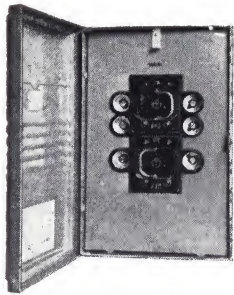
Features: Locking provision — plenty of wiring room — insulated groundable neutral — removable interior — positive make and break — plenty of knockouts (12).

Cat. No.	Description	List Each
58211SN	2 Pole solid neutral (1 blade, 1 plug fuse) 125 volts.....	\$2.95
58311SN	3 pole solid neutral (2 blades, 2 plug fuses) 125/250 volts.....	3.85
58311SNT	3 pole solid neutral (2 blades, 2 plug fuses) 125/250 volts with meter twistout	3.85
58211	2 pole (2 blades, 2 plug fuses) 125/250 volts	3.50
58211T	2 pole (2 blades, 2 plug fuses) 125/250 volts with meter twistout	3.50
58221	2 pole (2 blades, 2 cartridge fuses) 250 volts.....	4.40
58321SN	3 pole solid neutral (2 blades, 2 cartridge fuses) 125/250 volts 230 volts AC.....	5.50

Box size: 4 1/2" wide x 6 1/8" long x 3 1/4" deep.

SCHEDULE A

TRUMBULL SERVICE EQUIPMENT



No. 224-6

FUSE-PULLER SWITCHES

For Entrance and Load Side Service
Sequence: M—S—F

Grounded Neutral

Conduit knockouts in top.

Solderless connectors, standard.

Amp.	60 Amp. Mains			Branches		Surface		Flush	
	Poles	Blades	Fused Poles	60A 3PSN	30A Plug	Cat. No.	List Each	Cat. No.	List Each
Main Disconnect Only									
60	3	2	2	..	0	2907	\$9.35	2909	\$9.35
	3	2	2	..	4	2907-4	10.80	2909-4	10.80
	3	2	2	..	6	2907-6	14.00	2909-6	14.00
	3	2	2	..	8	2907-8	20.00	2909-8	20.00
	3	2	2	..	8	2907-8	20.00	2909-8	20.00
Main and Range Puller Wired in Series									
60	3	2	2	1	4	224-4	12.40	224-4F	12.40
	3	2	2	1	6	224-6	18.00	224-6F	18.00
	3	2	2	1	8	224-8	24.00	224-8F	24.00
Main and Range Puller Wired in Parallel									
60	3	2	2	1	4	*226-4	12.40	*226-4F	12.40
	3	2	2	1	6	*226-6	18.00	*226-6F	18.00
	3	2	2	1	8	2926-8	24.00	2927-8	24.00
100	3	2	2	1	6	†229-6	18.00	†229-6F	18.00
	3	2	2	1	8	†229-8	24.00	†229-8F	24.00
	3	2	2	1	8	†229-8	24.00	†229-8F	24.00
100 Ampere Main Puller									
100	3	2	2	..	..	4607	22.00	4609	24.75

*Equipped with main solderless lugs for No. 14—No. 1/0 wire.

†100 ampere gutters and No. 14—No. 1/0 main solderless lugs.

METER SERVICE ENTRANCE SWITCHES

Switch-Meter-Fuse

Accessible Fuses
Meter End Walls

Finish: Medium light grey. Testing facilities.



No. 39322

Amp.	Mains			Voltage AC	Cat. No.	Approx. Wt., Lbs.	List Each
	Poles	Blades	Fuses				
Plug Fuses							
30	2	1	1	125	39111	9	\$ 8.25
	3	2	2	125/250	39311	9 ¹ / ₂	10.35
Cartridge Fuses							
60	3	2	2	230	39322	14	17.25
	4	3	3	230	39622	17	41.00
100	3	2	2	230	39323	21	31.00
	4	3	3	230	39623	34	87.00
200	3	2	2	230	39324	40	83.00
	4	3	3	230	39624	49	119.00

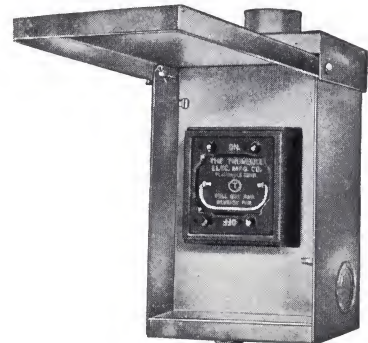
TRUMBULL SERVICE EQUIPMENT FUSE PULLER SWITCHES—RAIN TIGHT

NEMA Type 3

Single Phase 3 Wire—125/250 V. AC



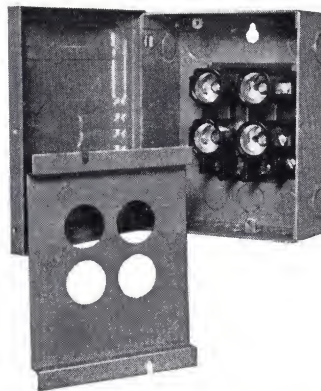
No. 4607-WPE



No. 2907-WPE

Finish: Medium light grey.

Amp.	60 Amp. Mains			Branches		Hub in Top	Cat. No.	List Each
	Poles	Blades	Fused Poles	60A 3PSN	30A Plug			
60	Main Disconnect Only							
	3	2	2	----	0	----	2907WP	\$13.00
	3	2	2	----	0	1¼	2907WPE	14.70
	Main and Branch Puller Wired in Series							
	3	2	2	1	4	----	224-4R	18.50
	3	2	2	1	4	1¼	224-4RE	20.20
	3	2	2	1	6	----	224-6R	28.00
	3	2	2	1	6	1¼	224-6RE	29.70
	Main and Range Puller Wired in Parallel							
	3	2	2	1	4	----	226-4R	18.50
	3	2	2	1	4	1¼	226-4RE	20.20
	3	2	2	1	6	----	226-6R	28.00
	3	2	2	1	6	1¼	226-6RE	29.70
	100 Ampere Main Puller							
	100	3	2	2	----	0	----	4607WP	24.65
3		2	2	----	0	1¼	4607WPE	26.35



RESIDENCE PANELS

Single plug fuse; dead front shield. Finish: Medium light grey. 125/250 volt AC or DC.

No. of Circuits	Mains 2 or 3 Wire Branches 2 Wire				Mains 3 Phase 4 Wire Branches 2 Wire			
	Amp. Cap. Mains	Surface Cat. No.	Flush Cat. No.	List Each	Amp. Cap. Mains	Surface Cat. No.	Flush Cat. No.	List Each
2	30	29A2	C2N	\$ 3.30	..	..	..	..
4	30	29A4	29A4F	4.50	..	..	..	..
6	50	29A6	29A6F	7.50	30	34A6	34A6F	\$ 8.25
8	60	29A8	29A8F	10.20	40	34A8	34A8F	11.25
10	60	29A10	29A10F	15.00	40	34A10	34A10F	16.60
12	60	29A12	29A12F	20.40	40	34A12	34A12F	22.50

TRUMBULL CABINET CONNECTORS AND WIRE GUTTER

CABINET

CONNECTORS

- Designed to replace nipples, lock nuts and bushings
- For connecting sheet metal boxes
- No threading necessary — easy to install



Conduit Size	Collar Spacing	Catalog Number	List Price Each
$\frac{3}{4}$	$\frac{3}{4}$ "	860 $\frac{3}{4}$	\$0.35
$1\frac{1}{4}$	$\frac{3}{4}$ "	861 $\frac{1}{4}$	.55
2	$\frac{3}{4}$ "	862	.80
3	$\frac{3}{4}$ "	863	1.90
4	$\frac{3}{4}$ "	864	3.60

TRUMBULL WIRING GUTTERS



These gutters are used for enclosing distribution wires, and also for feeding a bank of meters. Across the top and bottom near back are concentric knockouts $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{4}$ inch. Gutters and fittings are finished to match switches, and are packed in corrugated cardboard cartons for shipment.

Length Feet	4 x 4 INCH			4 x 6 INCH			6 x 6 INCH			8 x 8 INCH		
	Cat. No.	List Price Each	Approx. Weight Pounds	Cat. No.	List Price Each	Approx. Weight Pounds	Cat. No.	List Price Each	Approx. Weight Pounds	Cat. No.	List Price Each	Approx. Weight Pounds
1	G441	\$2.20	3	G461	\$4.40	6	G661	\$5.00	7	G881N	\$7.50	10
2	G442	3.90	6	G462	5.50	11	G662	6.60	14	G882N	10.00	20
3	G443	6.10	11	G463	7.70	17	G663	9.90	21	G883N	15.00	30
4	G444	7.70	14	G464	9.90	24	G664	13.00	28	G884N	20.00	40
End	G44E	.60	$\frac{1}{2}$	G46E	.70	$\frac{1}{2}$	G66E	1.00	1	G88EN	1.95	2
Conn.	G44C	.60	$\frac{1}{2}$	G46C	.70	$\frac{1}{2}$	G66C	.90	$\frac{1}{2}$	G88C	1.70	1
Elbow	G44L	5.50		G46L	6.60		G66L	7.70		G88L	11.00	
Tee	G44T	7.70		G46T	14.50		G66T	16.50		G88T	18.70	

Concentric $\frac{1}{2}$ " to $1\frac{1}{4}$ " KO on 4" CL; $\frac{1}{2}$ " and $\frac{3}{4}$ " concentric KO between.

Also stocked without KO's—Add suffix N to catalog number. Same price.

*End plates have $1\frac{1}{4}$ -inch concentric and 3-inch K.O. Also available with 2-inch K.O.

We manufacture Hinged Cabinets, junction boxes, wiring gutters, bus gutters, etc., to order. Quotations and drawings furnished promptly on receipt of specifications.

JUNCTION BOXES

Screw Cover

Cat. No.	Size	K.O.	Wt. Lbs. Packed	List Each	Cat. No.	Size	K.O.	Wt. Lbs. Packed	List Each
J66	6x6x3	$\frac{1}{2}$ to 1	4	\$3.05	J98	9x 8x4	$1\frac{1}{4}$ to $2\frac{1}{2}$	7	\$5.05
J68-1 $\frac{1}{2}$	6x8x3	$\frac{1}{2}$ to $1\frac{1}{2}$	5	3.25	J1010	10x10x5	$1\frac{1}{4}$ to 2 & 3	10	6.05
J68-2 $\frac{1}{2}$	6x8x3 $\frac{1}{2}$	$1\frac{1}{4}$ to $2\frac{1}{2}$	5	4.30	J1113	11x13x6	$1\frac{1}{4}$ to 3	12	9.25
J88	8x8x4	$\frac{1}{2}$ to $1\frac{1}{4}$	6	4.15	*J1824	18x24x9	2 to $2\frac{1}{2}$	40	19.60
					*J2432	24x32x9	3	54	30.60

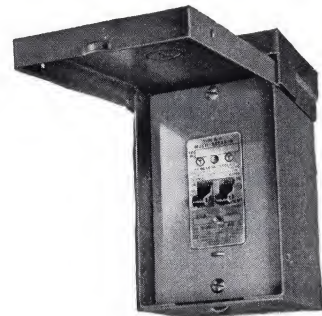
*Designed to be used as current transformer enclosure as well as junction box.

TRUMBULL SERVICE EQUIPMENT—MULTI-BREAKERS





Type MO

Tamper proof—calibrated and sealed at factory
 Trip free—handle cannot be held closed while
 overload condition exists
 Movable and fixed contacts—non-welding and non-
 corrosive
 Finish: Medium Light Grey
 TYPES MO and M—Thermal trip only
 TYPES M-1 and M-2—Thermal—Magnetic trip



Type MO Raintight

2 WIRE—1 PHASE—SOLID NEUTRAL 120 VOLT AC

Type of Breaker and Frame Size	Lighting Circuits 2 Wire S/N 120 V. AC S.P. Breaker and Neutral	Specify Flush or Surface Type, by adding the suffix "F" or "S" to the Catalog Number				Solid Main Rating
		Catalog Number	Approx. Weight Pounds	List Price Each Flush or Surface Mounting	Box Number	
MO 25 Amperes	1-15A	131110	3	\$4.30	13	35 Amperes
	1-20A	131120	3	4.30	13	
	1-25A	131130	3	4.30	13	
	2-15A	131711	3	6.40	13	
	2-20A	131722	3	6.40	13	
	2-25A	131733	3	6.40	13	
	1-15A 1-20A	131712	3	6.40	13	
M 50 Amperes	1-15A	16501	6	9.30	23	 50 Amperes
	1-20A	16502	6	9.30	23	
	1-25A	16503	6	9.30	23	
	1-35A	16504	6	9.30	23	
	1-50A	16505	6	9.30	23	
	2-15A	16611	6	11.50	23	 70 Amperes
	2-20A	16622	6	11.50	23	
	2-25A	16633	6	11.50	23	
	2-35A	16644	6	11.50	23	
	2-50A	16655	6	11.50	23	
	1-15A 1-20A	16612	6	11.50	23	

NO NEUTRAL—2 POLE—120/240 V. AC

Type of Breaker and Frame Size	Main or Branch Circuits	Specify Flush or Surface Type by adding the suffix "F" or "S" to Catalog Number				Solid Main Rating
	2 Pole Breaker M and MO Separate Trip M-1, M-2 Common Trip	Catalog Number	Approx. Weight Pounds	List Price Each Flush or Surface Mounting	Box Number	
MO 25 Amperes	1-15A	111611	3	\$ 5.70	11	35 Amperes
	1-20A	111622	3	5.70	11	
	1-25A	111633	3	5.70	11	
M 50 Amperes	1-15A	16911	6	11.50	21	50 Amperes
	1-20A	16922	6	11.50	21	
	1-25A	16933	6	11.50	21	
	1-35A	16944	6	11.50	21	
	1-50A	16955	6	11.50	21	
M-1 50 Amperes 240 V. AC	1-15	212215	11	18.50	21	
	1-20	212220	11	18.50	21	
	1-25	212225	11	18.50	21	
	1-35	212235	11	18.50	21	
	1-50	212250	11	18.50	21	
M-2 100 Amperes 240 V. AC	1-50A	313250	12	27.00	31	100 Amperes
	1-70A	313270	12	27.00	31	
	1-100A	313216	12	27.00	31	

Note: Raintight Enclosures—Box Numbers which can be provided with raintight enclosures and list price additions on request.

Discount Schedule C-3

TRUMBULL SERVICE EQUIPMENT—MULTI-BREAKERS



MO-4

Tamper-proof—calibrated and sealed at factory

Trip Free—handle cannot be held closed while overload condition exists

Movable and fixed contacts—non-welding, and non-corrosive

Finish: Medium Light Grey

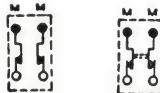
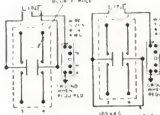


Types MO, MB and M—Thermal trip only

Type MO-4—Thermal—Magnetic trip



MB

3 WIRE, 1 PHASE SOLID NEUTRAL 120/240 V. AC

Type of Breaker and Frame Size	No. of Main or Branch Circuits		Insulated Groundable Neutral				Solid Main Rating
	Lighting Circuits 2 Wire S/N 120 V. AC 1 Pole Breaker and Neutral	Main, Range Water Heater or Sub-Feed Circuit 120/240 V. AC 2 Pole Breaker (Separate Trip) and Neutral	Specify Flush or Surface Type by adding the suffix "F" or "S" to the Catalog Number				
			Catalog Number	Approx. Weight Pounds	List Price Each Flush or Surface	Box Number	
MO 25 Ampere	2-15A	0	131711	3	\$ 6.40	13	35 Amperes 
	2-20A	0	131722	3	6.40	13	
	2-25A	0	131733	3	6.40	13	
	1-15A 1-20A	0	131712	3	6.40	13	
	0	1-15A	131611	3	6.40	13	
	0	1-20A	131622	3	6.40	13	
	0	1-25A	131633	3	6.40	13	
MO-4 30 Ampere	4-15A	*	181111	4	12.00	18	50 Amperes 
	4-20A	*	182222	4	12.00	18	
	4-30A	*	183333	4	12.00	18	
	3-15A 1-20A	*	181112	4	12.00	18	
	2-15A 2-20A	*	182211	4	12.00	18	
	2-15A 2-30A	*	183311	4	12.00	18	
	1-15A 1-20A	*	183312	4	12.00	18	
	2-30A	*					
M 50 Ampere	5	0	95550	12	26.00	9	3-50 Amperes For 100A. Bussed mains
	6	0	95560	12	27.00	9	
	3	1	95531	12	27.00	9	
	4	1	95541	12	29.00	9	
	1	2	95512	12	27.00	9	
	2	2	95522	12	29.00	9	
	0	3	95503	12	30.00	9	
M 50 Ampere	2-15A	0	16611	6	11.50	23	
	2-20A	0	16622	6	11.50	23	
	2-25A	0	16633	6	11.50	23	
	2-35A	0	16644	5	11.50	23	
	2-50A	0	16655	5	11.50	23	
	3	0	35530	10	15.50	3	70 Amperes 
	4	0	35540	10	17.00	3	
	1	1	35511	10	15.50	3	
	2	1	35521	10	18.50	3	
	0	2	35502	10	18.50	3	

LISTINGS continued on next page.




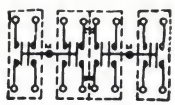
*MO-4 Multi-Breakers are listed as single pole 120 volt circuit devices. For double pole 120-240 volts AC circuits of like capacity, insert handle tie furnished with each device. Extra handle ties Catalog No. 10HT, \$0.10 list price each.

Notes: When ampere ratings are not shown, specify number of 15, 20, 25, 35 or 50 ampere, single or double pole branch circuits desired for each Catalog number ordered.

Raintight Enclosures—Box Numbers which can be provided with raintight enclosures and list price additions on request.

TRUMBULL SERVICE EQUIPMENT—MULTI-BREAKERS

3 WIRE, 1 PHASE SOLID NEUTRAL 120/240 V. AC

Type of Breaker and Frame Size	Number of Main or Branch Circuits		Insulated Groundable Neutral				Solid Main Rating Maximum		
	Lighting Circuits 2 Wire S/N 120 V. AC 1 Pole Breaker and Neutral	* Main, Range Water Heater or Sub-Feed Circuit 120/240 V. AC 2 Pole Breaker (Separate Trip) and Neutral	Specify Flush or Surface Type by adding the suffix "F" or "S" to the Catalog Number						
			Catalog Number	Approx. Weight Pounds	List Price Each Flush or Surface	Box Number			
M 50 Amp.	0	1-15A	16711	5	\$12.00	23	 50 Amperes		
	0	1-20A	16722	5	12.00	23			
	0	1-25A	16733	5	12.00	23			
	0	1-35A	16744	5	12.00	23			
	0	1-50A	16755	5	12.00	23			
M-2 100 Amp.	0	1-50A	333250	12	30.00	33	 100 Amperes		
	0	1-70A	333270	12	30.00	33			
	0	1-100A	333216	12	30.00	33			
MB	4		35040	10	15.00	3	 Box No. 3 70 Amperes For 100 Ampere Mains Using No. 9 Box		
	5		35050	10	17.70	3			
	6		35060	10	20.00	3			
	7		35070	10	21.50	3			
	8		35080	10	24.50	3			
	9		57090	19	38.00	5			
	10		57100	19	38.00	5			
	11		57110	19	43.00	5			
	12		57120	19	43.00	5			
	13		57130	19	57.00	5			
	14		57140	19	58.00	5			
	15		57150	19	61.00	5			
	16		57160	19	63.00	5			
	MB	1	1	35011	10	15.00		3	 Box No. 5 100 Amperes For 100 Ampere Mains Using No. 9 Box,
		2	1	35021	10	15.00		3	
3		1	35031	10	17.70	3			
4		1	35041	10	20.00	3			
5		1	35051	10	21.00	3			
6		1	35061	10	24.50	3			
7		1	57071	19	38.00	5			
8		1	57081	19	38.00	5			
9		1	57091	19	43.00	5			
10		1	57101	19	43.00	5			
11		1	57111	19	57.00	5			
12		1	57121	19	58.00	5			
13		1	57131	19	61.00	5			
14		1	57141	19	63.00	5			

LISTINGS continued on next page.

*When ampere ratings are not shown, specify 15, 20, 25, 35 or 50 ampere single- or double-pole branch circuits desired for each catalog number ordered.


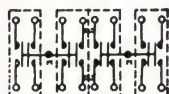
Notes: Individual single polarity unit blocks in these devices are limited to a maximum of 135 amperes.

Raintight enclosures—Box numbers which can be provided with raintight enclosures and list price additions, on request.

The use of handle bails, coupling outside single poles, makes possible more than 2 double poles on devices in Box No. 3 and more than 4 double poles on devices in Box No. 5.

TRUMBULL SERVICE EQUIPMENT—MULTI-BREAKERS

3 WIRE, 1 PHASE SOLID NEUTRAL 120/240 V. AC

Type of Breaker and Frame Size	Number of Main or Branch Circuits		Insulated Groundable Neutral				Solid Main Rating Maximum
	* Lighting Circuits 2 Wire S/N 120V. AC 1 Pole Breaker and Neutral	* Main, Range Water Heater of Sub-Feed Circuit 120/240 Volts AC 2 Pole Breaker (Separate Trip) and Neutral	Specify Flush or Surface Type by adding the suffix "F" or "S" to the Catalog Number.				
			Catalog Number	Approx. Weight Pounds	List Price Each Flush or Surface	Box Number	
MB	0	2	35002	10	\$15.00	3	Box No. 3 70 Amperes  For 100 Ampere Mains using No. 9 Box
	1	2	35012	10	17.70	3	
	2	2	35022	10	20.40	3	
	3	2	35032	10	23.00	3	
	4	2	35042	10	24.50	3	
	5	2	57052	19	38.00	5	
	6	2	57062	19	38.00	5	
	7	2	57072	19	43.00	5	
	8	2	57082	19	43.00	5	
	9	2	57092	19	57.00	5	
	10	2	57102	19	58.00	5	
	11	2	57112	19	61.00	5	
12	2	57122	19	63.00	5		
MB	0	3	35003	10	20.40	3	Box No. 5 100 Amperes 
	1	3	35013	10	23.00	3	
	2	3	35023	10	24.50	3	
	3	3	57033	19	38.00	5	
	4	3	57043	19	38.00	5	
	5	3	57053	19	43.00	5	
	6	3	57063	19	43.00	5	
	7	3	57073	19	57.00	5	
	8	3	57083	19	58.00	5	
	9	3	57093	19	61.00	5	
	10	3	57103	19	63.00	5	
MB	0	4	35004	10	24.50	3	
	1	4	57014	19	38.00	5	
	2	4	57024	19	38.00	5	
	3	4	57034	19	43.00	5	
	4	4	57044	19	43.00	5	
	5	4	57054	19	57.00	5	
	6	4	57064	19	58.00	5	
	7	4	57074	19	61.00	5	
	8	4	57084	19	63.00	5	

LISTINGS continued on next page.

*When ampere ratings are not shown, specify 15, 20, 25, 35 or 50 ampere single- or double-pole branch circuits desired for each catalog number ordered.

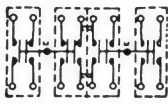
Notes: Individual single polarity unit blocks in these devices are limited to a maximum of 135 amperes.

Raintight enclosures—Box numbers which can be provided with raintight enclosures and List Price additions, furnished on request.

The use of handle bails, coupling outside single poles, makes possible more than 2 double poles on devices in Box 3 and more than 4 double poles on devices in Box No. 5.

TRUMBULL SERVICE EQUIPMENT—MULTI-BREAKERS

3 WIRE, 1 PHASE SOLID NEUTRAL 120/240 V. AC

Type of Breaker	Number of Main or Branch Circuits		Insulated Groundable Neutral				Solid Main Rating Maximum
	* Lighting Circuits 2 Wire S/N 120 V. AC 1 Pole Breaker and Neutral	* Main, Range Water Heater or Sub-Feed Circuit 120/240 V. AC 2 Pole Breaker (Separate Trip) and Neutral	Specify Flush or Surface Type by adding the suffix "F" or "S" to the Catalog Number				
			Catalog Number	Approx. Weight Pounds	List Price Each Flush or Surface	Box Number	
MB	0	5	57005	19	\$38.00	5	Box No. 5 100 Amperes 
	1	5	57015	19	43.00	5	
	2	5	57025	19	43.00	5	
	3	5	57035	19	57.00	5	
	4	5	57045	19	58.00	5	
	5	5	57055	19	61.00	5	
	6	5	57065	19	63.00	5	
MB	0	6	57006	19	43.00	5	
	1	6	57016	19	57.00	5	
	2	6	57026	19	58.00	5	
	3	6	57036	19	61.00	5	
	4	6	57046	19	63.00	5	
MB	0	7	57007	19	58.00	5	
	1	7	57017	19	61.00	5	
	2	7	57027	19	63.00	5	
MB	0	8	57008	19	63.00	5	

*Specify 15, 20, 25, 35 or 50 ampere single or double pole branch circuits desired for each catalog number ordered.

Notes: Individual single polarity unit blocks in these devices are limited to a maximum of 135 amperes.

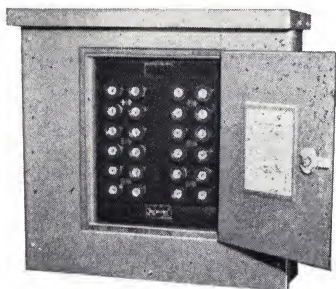
Box numbers which can be provided with raintight enclosures and list price additions, furnished on request.

The use of handle bails, coupling outside single poles, makes possible more than 2 double poles on devices in Box No. 3 and more than 4 double poles on devices in Box No. 5.

Discount Schedule C-3

TRUMBULL WEATHERPROOF LIGHTING PANEL

FOR GENERAL ELECTRIC OUTDOOR SPORTS FIELD LIGHTING



Branches: 2 wire, single pole, plug fusing, (30 amp.). Fuses not included.

Weatherproof box, 10 gauge sheet steel. All boxes identical. Dimensions 19 1/4 inches high; 21 inches wide; 7 1/4 inches deep overall. Gasketed door. Brass hinges. Vault handle catch and lock. 2-inch knockout in bottom end. External mounting strap with stud for attachment to pole.

Single Phase—3 Wire

Cat. No.	No. of Circuits	Main Lugs at Bottom	Approx. Wt. Lbs.	List Price
WP-NP308-L	8	60 Amp.	90	\$132.00
WP-NP316-L	16	100 Amp.	110	149.00
WP-NP324-L	24	200 Amp.	115	166.00

Three Phase—4 Wire

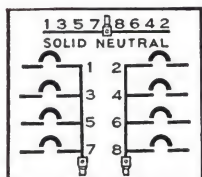
WP-NP408-L	8	60 Amp.	90	139.00
WP-NP416-L	16	60 Amp.	110	156.00
WP-NP424-L	24	100 Amp.	115	173.00

Service: Single phase, 3 wire, 125/250 volts, solid neutral; three phase, 4 wire, 120/208 volts, solid neutral.

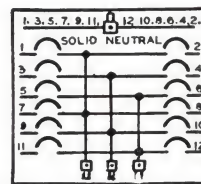
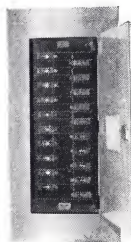
TRUMBULL LIGHTING PANELBOARDS

NAB Circuit Breaker Panel

Alternating and Direct Current



NAB-3



NAB-4

	No. Circuits	Cap. of Mains	Mains with Lugs Only			Mains with Circuit Breaker		
			Cat. No.	List Each	Box Only Cat. No.	Cat. No.	List Each	Box only Cat. No.
MAINS								
3 Wire	4	50	NAB304L	\$92.00	51200	NAB304AB	\$108.00	51202
125-250 V.	8	50	NAB308L	132.00	51201	NAB308AB	148.00	51203
BRANCHES	12	100	NAB312L	172.00	51202	NAB312AB	216.00	61206
2 Wire	16	100	NAB316L	212.00	51203	NAB316AB	256.00	61207
125 V.	20	100	NAB320L	252.00	51204	NAB320AB	296.00	61208
15 Amp. Single Pole	24	200	NAB324L	292.00	51205	NAB324AB	448.00	61211
Type AT Breaker	28	200	NAB328L	332.00	51206	NAB328AB	488.00	61212
in one leg of Branches.	32	200	NAB332L	372.00	51207	NAB332AB	528.00	61213
Solid Neutral Bar	36	200	NAB336L	412.00	51208	NAB336AB	568.00	61214
in other.	40	200	NAB340L	452.00	51209	NAB340AB	608.00	61215
MAINS	4	50	NAB404L	\$91.00	51200	NAB404AB	\$123.00	51202
4 Wire	8	50	NAB408L	139.00	51201	NAB408AB	163.00	51203
3 Phase	12	50	NAB412L	179.00	51202	NAB412AB	203.00	51204
120-208 V.	16	100	NAB416L	219.00	51203	NAB416AB	276.00	61207
BRANCHES	20	100	NAB420L	259.00	51204	NAB420AB	316.00	61208
2 Wire	24	100	NAB424L	299.00	51205	NAB424AB	356.00	61209
125 V.	28	100	NAB428L	339.00	51206	NAB428AB	396.00	61210
15 Amp. Single Pole	32	200	NAB432L	379.00	51207	NAB432AB	571.00	61213
Type AT Breaker	36	200	NAB436L	419.00	51208	NAB436AB	611.00	61214
in one leg of Branches.	40	200	NAB440L	459.00	51209	NAB440AB	651.00	61215
Solid Neutral Bar								
in other.								

Panels with circuits other than listed above, available on request.

Lists cover 15 amp. breakers. 20, 30, 40 or 50 amp. breakers supplied at same price except increased mains should be added where necessary.

Lighting Panelboards furnished with DUAL PURPOSE FRONT; suitable for either flush or surface mounting. Where front must not overhang box edges, specify "must be surface mounting."

SCHEDULE L

PANELBOARD BOX SIZES

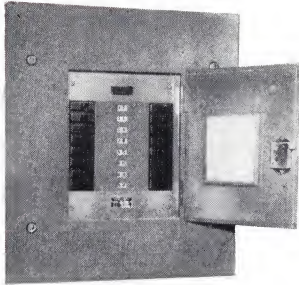
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SCHEDULE L

TRUMBULL LIGHTING PANELBOARDS

NTQ Circuit Breaker Panels

For Alternating Current Only



Mains: Lugs only or Circuit Breakers; with solderless lugs.

Branches: Single Pole—thermal—magnetic trip breakers—quick make and break—trip free.

Boxes: Code gauge galvanized sheet steel—4-inch gutters.

Fronts: Code gauge steel—medium light grey lacquer over zinc chromate primer—single door construction.

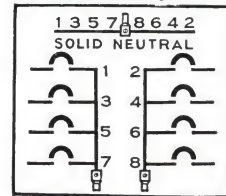
Mains:
3 Wire, 120/240 Volts
AC solid neutral

Branches:
2 Wire, 120 Volts AC
solid neutral

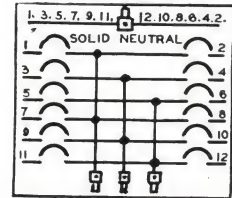
Mains:
4 Wire, 3 Phase
120/208 Volts AC
solid neutral

Branches:
2 Wire, 120 Volts AC
solid neutral

Type NTQ 3



Type NTQ 4



TYPE NTQ 3								TYPE NTQ 4							
No. Circuits	Main Amperes	Mains with Lugs Only			Mains with Circuit Breaker			No. Circuits	Main Amperes	Mains with Lugs Only			Mains with Circuit Breaker		
		Cat. No.	Cat. No. Box Only	*List Price Complete	Cat. No.	Cat. No. Box Only	*List Price Complete			Cat. No.	Cat. No. Box Only	*List Price Complete	Cat. No.	Cat. No. Box Only	*List Price Complete
4	50	NTQ304L	51200	\$80.00	NTQ304AB	51202	\$96.00	6	50	NTQ406L	51201	\$101.00	NTQ406AB	51203	\$126.00
6		NTQ306L	51201	95.00	NTQ306AB	51203	110.00	8		NTQ408L	51201	116.00	NTQ408AB	51203	140.00
8		NTQ308L	51201	109.00	NTQ308AB	51203	125.00	10		NTQ410L	51201	130.00	NTQ410AB	51203	155.00
10		NTQ310L	51201	123.00	NTQ310AB	51203	139.00	12		NTQ412L	51201	144.00	NTQ412AB	51203	169.00
12	100	NTQ312L	51201	138.00	NTQ312AB	61205	182.00	14	100	NTQ414L	51202	159.00	NTQ414AB	51204	183.00
14		NTQ314L	51202	152.00	NTQ314AB	61205	196.00	16		NTQ416L	51202	173.00	NTQ416AB	61205	230.00
16		NTQ316L	51202	166.00	NTQ316AB	61205	210.00	18		NTQ418L	51203	187.00	NTQ418AB	61206	244.00
18		NTQ318L	51203	181.00	NTQ318AB	61206	225.00	20		NTQ420L	51203	202.00	NTQ420AB	61206	259.00
20	200	NTQ320L	51203	195.00	NTQ320AB	61206	239.00	22	200	NTQ422L	51203	216.00	NTQ422AB	61207	273.00
22		NTQ322L	51203	210.00	NTQ322AB	61209	365.00	24		NTQ424L	51203	230.00	NTQ424AB	61207	287.00
24		NTQ324L	51203	224.00	NTQ324AB	61209	380.00	26		NTQ426L	51204	244.00	NTQ426AB	61208	301.00
26		NTQ326L	51204	238.00	NTQ326AB	61209	394.00	28		NTQ428L	51204	259.00	NTQ428AB	61208	316.00
28	200	NTQ328L	51204	252.00	NTQ328AB	61209	408.00	30	200	NTQ430L	51205	273.00	NTQ430AB	61208	330.00
30		NTQ330L	51205	266.00	NTQ330AB	61210	422.00	32		NTQ432L	51205	287.00	NTQ432AB	61210	480.00
32	200	NTQ332L	51205	281.00	NTQ332AB	61210	436.00	34	200	NTQ434L	51205	302.00	NTQ434AB	61211	494.00
34		NTQ334L	51205	295.00	NTQ334AB	61211	450.00	36		NTQ436L	51205	316.00	NTQ436AB	61211	508.00
36		NTQ336L	51205	310.00	NTQ336AB	61211	465.00	38		NTQ438L	51206	330.00	NTQ438AB	61211	522.00
38		NTQ338L	51206	324.00	NTQ338AB	61211	480.00	40		NTQ440L	51206	344.00	NTQ440AB	61211	537.00
40		NTQ340L	51206	338.00	NTQ340AB	61211	494.00	42		NTQ442L	51207	359.00	NTQ442AB	61212	551.00
42		NTQ342L	51207	352.00	NTQ342AB	61212	508.00								

*List prices based on 15-ampere breakers. 10, 20, 30, 40 or 50-ampere breakers can be supplied at same price unless increased bus capacity is required. For increased mains, space only and special features, information on request.

Double-pole breakers: For each double-pole breaker (independent trip) that is substituted for two single-pole breakers, add \$1.50 to list.

Main breakers: 50 amperes—Type AT; 100 amperes—Type ATB; 200 amperes—Type AT.

†Box 5¾ inches deep.

Standard knockouts furnished on all lighting panelboard boxes unless otherwise specified on order. Special boxes furnished with blank ends unless knockout information accompanies order.

Lighting Panelboards furnished with DUAL PURPOSE FRONT; suitable for either flush or surface mounting. Where front must not overhang box edges, specify "must be SURFACE MOUNTING."

SCHEDULE L

TRUMBULL LIGHTING PANELBOARD

NTP and NTC Switch and Fuse Panels

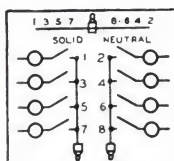
For Alternating or Direct Current



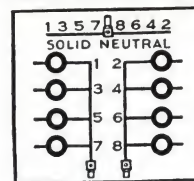
STANDARD TYPE

MAINS
3 Wire 125-250 V.
AC or DC
BRANCHES
2 Wire, 125 V.
AC or DC

30 Amp. S. P. FUSED.
Tumbler Switch in one leg.
SOLID NEUTRAL in other.



PLUG FUSE TYPE



NP3

MAINS
3 Wire, 125-250 Volts
BRANCHES
2 Wire, 125 Volts

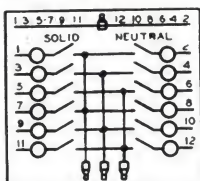
SINGLE PLUG FUSE in one leg
SOLID NEUTRAL in other
SINGLE DOOR CONSTRUCTION

No. Cir.	Cap. Mains Amps.	†Box Only Cat. No.	SINGLE DOOR			DOOR-IN-DOOR
			PLUG FUSES Cat. No.	CART. FUSES Cat. No.	List Price	Add Suffix D to Cat. No.
MAINS WITH LUGS ONLY						
4	60	51200	NTP304L	NTC304L	\$68.00	Add \$25.00 to Single Door Prices
8	60	51201	NTP308L	NTC308L	86.00	
12	60	51202	NTP312L	NTC312L	104.00	
16	100	51203	NTP316L	NTC316L	121.00	
20	100	51204	NTP320L	NTC320L	138.00	
24	200	51205	NTP324L	NTC324L	155.00	
28	200	51206	NTP328L	NTC328L	172.00	
32	200	51207	NTP332L	NTC332L	189.00	
36	200	51208	NTP336L	NTC336L	206.00	
40	200	51209	NTP340L	NTC340L	223.00	

MAINS WITH SAFETY FUSE (Swing-Wa)						
4	60	51203	NTP304SWF	NTC304SWF	\$85.00	Add \$25.00 to Single Door Prices
8	60	51204	NTP308SWF	NTC308SWF	101.00	
12	60	51205	NTP312SWF	NTC312SWF	118.00	
16	100	51206	NTP316SWF	NTC316SWF	152.00	
20	100	51207	NTP320SWF	NTC320SWF	169.00	
24	200	51209	NTP324SWF	NTC324SWF	226.00	
28	200	51210	NTP328SWF	NTC328SWF	243.00	
32	200	51211	NTP332SWF	NTC332SWF	261.00	
36	200	51212	NTP336SWF	NTC336SWF	278.00	
40	200	51213	NTP340SWF	NTC340SWF	295.00	

MAINS
4 Wire, 3 Ph.
120-208 V.
BRANCHES
2 Wire, 125 Volt

30 Amp. S.P. FUSED Tumbler
Switch in one leg.
SOLID NEUTRAL in other.



No. Cir.	Cap. Mains Amps.	†Box Only Cat. No.	SINGLE DOOR			DOOR-IN-DOOR
			PLUG FUSES Cat. No.	CART. FUSES Cat. No.	List Price	Add Suffix D to Cat. No.
MAINS WITH LUGS ONLY						
4	60	51200	NTP404L	NTC404L	\$75.00	Add \$25.00 to Single Door Prices
8	60	51201	NTP408L	NTC408L	92.00	
12	60	51202	NTP412L	NTC412L	110.00	
16	60	51203	NTP416L	NTC416L	127.00	
20	100	51204	NTP420L	NTC420L	144.00	
24	100	51205	NTP424L	NTC424L	161.00	
28	100	51206	NTP428L	NTC428L	178.00	
32	200	51207	NTP432L	NTC432L	196.00	
36	200	51208	NTP436L	NTC436L	213.00	
40	200	51209	NTP440L	NTC440L	230.00	

MAINS WITH SAFETY FUSE (Swing-Wa)						
4	60	51203	NTP404SWF	NTC404SWF	\$100.00	Add \$25.00 to Single Door Prices
8	60	51204	NTP408SWF	NTC408SWF	117.00	
12	60	51205	NTP412SWF	NTC412SWF	135.00	
16	60	51206	NTP416SWF	NTC416SWF	152.00	
20	100	51207	NTP420SWF	NTC420SWF	192.00	
24	100	51208	NTP424SWF	NTC424SWF	209.00	
28	100	51209	NTP428SWF	NTC428SWF	226.00	
32	200	51211	NTP432SWF	NTC432SWF	302.00	
36	200	51212	NTP436SWF	NTC436SWF	319.00	
40	200	51213	NTP440SWF	NTC440SWF	336.00	

MAINS
4 Wire, 3 Phase, 120-208 V.
BRANCHES
2 Wire, 125 Volts

SINGLE PLUG FUSE in one leg
SOLID NEUTRAL in other
SINGLE DOOR CONSTRUCTION

PLUG FUSES Cat. No.	No. Cir.	Price Each	Cap Mains Amps.	Box only Cat. No.
MAINS WITH LUGS ONLY				
NP416L	16	\$92.00	60	51201
NP424L	24	110.00	100	51202
NP432L	32	147.00	200	51203
NP440L	40	144.00	200	51204

PLUG FUSES Cat. No.	No. Cir.	Price Each	Cap Mains Amps.	Box only Cat. No.
MAINS WITH SAFETY-FUSE (Swing-Wa)				
NP408SWF	8	\$100.00	60	51203
NP416SWF	16	117.00	60	51204
NP424SWF	24	157.00	100	51205
NP432SWF	32	233.00	200	51207
NP440SWF	40	250.00	200	51208

For general additions when other than standard features are required, information on request.

Standard knockouts furnished on all Lighting Panelboard Boxes unless otherwise specified on order.

†For box sizes, see a following page. Blank box ends will be furnished on all special panelboard boxes unless knockout information accompanies order.

Solderless Lugs standard in the mains.

Furnished with a dual purpose front which is suitable for either **Flush** or **Surface** mounting. Where front must not overhang box edges, specify "must be surface mounting."

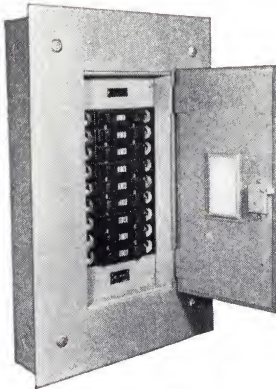
SCHEDULE L

TRUMBULL LIGHTING PANELBOARDS

Type NTPR Switch and Fuse Panels

SINGLE FUSING TYPE

For Alternating or Direct Current

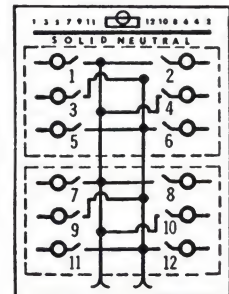


18 Circuit NTPR

- Mains: Lugs only or Converti-fuse units; with solderless lugs
- Branches: Single pole plug fused 30 amp., Tumbler switches
- Boxes: †17" wide x 4½" deep—Panelboards are unit packaged
- Single Door Construction

MAINS: 3 WIRE 125/250 V. ● BRANCHES: 2 Wire 125 V. For AC or DC

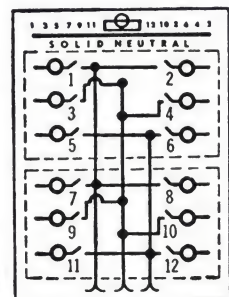
Number of Circuits	Main Amperes	MAINS WITH LUGS ONLY				MAINS WITH CONVERTI-FUSE			
		† Box Height Inches	* Catalog Number	Approximate Shipping Weights	List Price Complete	† Box Height Inches	* Catalog Number	Approximate Shipping Weights	List Price Complete
6	60	18	‡ NTPR306L	33	\$ 39.00	26 ⅝	NTPR306F	50	\$ 65.00
12		22 ⅛	NTPR312L	44	53.00	30 ½	NTPR312F	61	80.00
18	100	26 ⅜	NTPR318L	55	83.00	34 ⅞	NTPR318F	74	114.00
24		30 ½	NTPR324L	69	108.00	43 ⅞	NTPR324F	94	148.00
30	200	34 ⅞	NTPR330L	80	123.00	47 ⅞	NTPR330F	105	164.00
36		38 ⅞	NTPR336L	92	148.00	51 ⅞	NTPR336F	116	197.00
42		43 ⅞	NTPR342L	104	166.00	55 ⅞	NTPR342F	127	215.00



30 Amperes, Single Pole Tumbler Switches and Single Plug Fuse in one leg, Solid Neutral Bar in other leg

MAINS: 4 WIRE, 3 PHASE 120/208 V. ● BRANCHES 2 WIRE, 120 V. AC

6		18	‡ NTPR406L	33	\$ 41.00	26 ⅝	NTPR406F	53	\$ 71.00
12	60	22 ⅛	NTPR412L	44	59.00	30 ½	NTPR412F	64	89.00
18		26 ⅜	NTPR418L	55	96.00	34 ⅞	NTPR418F	77	122.00
24	100	30 ½	NTPR424L	69	118.00	38 ⅞	NTPR424F	88	149.00
30		34 ⅞	NTPR430L	80	132.00	43 ⅞	NTPR430F	99	167.00
36	200	38 ⅞	NTPR436L	92	174.00	NOT AVAILABLE			
42		43 ⅞	NTPR442L	104	194.00				



30 Amperes, Single Pole Tumbler Switches and Single Plug Fuse in one leg, Solid Neutral Bar in other leg

† Outside Box dimensions add ¼" to dimensions shown.

‡ Approved for Service Entrance Equipment.

* Panelboards are unit packaged.

Panelboards are furnished with DUAL PURPOSE FRONT; suitable for either flush or surface mounting.

Where front must not overhang box edges, add suffix S to catalog number. No change in price.

Handle Lock-Off Cat. No. LO-2, \$1.40 List Price Each.

Fuses or adapters not included in price.

SCHEDULE L-3

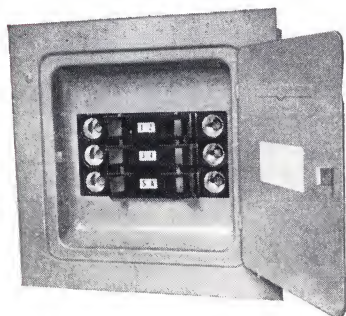
TRUMBULL LIGHTING PANELBOARDS

Type NTPS Switch and Fuse Panels

SINGLE FUSING

For Alternating or Direct Current

U/L Listed—As Panelboards under File E2366

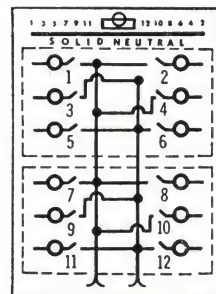


- Mains: Lugs Only
- Branches: Single Pole plug fused 30 Amps.
Tumbler Switches
- Boxes: $\frac{1}{2}$ " wide x $3\frac{1}{8}$ " deep—Panelboards Unit Packaged
- Single Door Construction

MAINS: 3 WIRE, 125/250V. ● BRANCHES: 2 WIRE, 125 V.

30 Amperes, Single Pole Tumbler Switches and Single Plug Fuse in one leg, Solid Neutral Bar in other leg

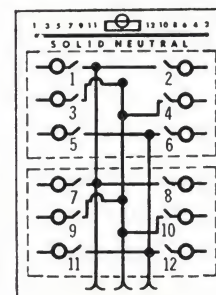
Number of Circuits	Main Amperes	MAINS WITH LUGS ONLY				Type NTPS Panelboards are not available with Special Features
		† Box Height Inches	* Catalog Number	Approximate Shipping Weights	List Price Complete	
6	60	11 $\frac{1}{8}$	† NTPS306L	16	\$17.50	
12		16 $\frac{1}{8}$	NTPS312L	22	41.00	



MAINS: 4 WIRE, 3 PHASE 120/208 V. ● BRANCHES: 2 WIRE, 120 V.

30 Amperes, Single Pole Tumbler Switches and Single Plug Fuse in one leg, Solid Neutral Bar in other leg

Number of Circuits	Main Amperes	MAINS WITH LUGS ONLY				Type NTPS Panelboards are not available with Special Features
		† Box Height Inches	* Catalog Number	Approximate Shipping Weights	List Price Complete	
6	60	11 $\frac{1}{8}$	† NTPS406L	16	\$29.00	
12		16 $\frac{1}{8}$	NTPS412L	22	45.00	

† For outside box dimensions add $\frac{1}{4}$ " to dimensions shown.

‡ Approved for Service Entrance Equipment.

* Panelboards are unit packaged.

Panelboards are furnished with DUAL PURPOSE FRONT; suitable for either flush or surface mounting.

Where front must not overhang box edges, add suffix S to catalog number. No change in price.

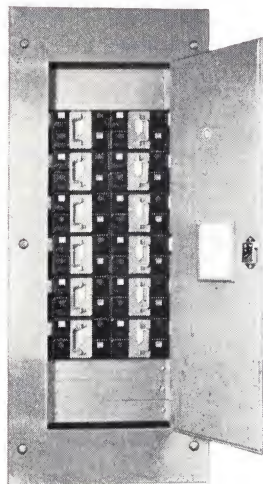
Handle Lock-Off Cat. No. LO-2, \$1.40 List Each.

Fuses or adaptors not included in price.

SCHEDULE L-2

TRUMBULL DISTRIBUTION PANELBOARDS

Converti-Fuse Panelboards



- Service—Single phase or DC—2 or 3 wire
Three phase, three or four wire
Maximum 250 V. DC—575 V. AC
- Mains—1200 ampere lugs or 400 ampere switch maximum.
- Branches—30 to 400 ampere, one, two or three pole.
- Maximum convertibility through interchangeable sections and fuse clips.
- Compact design.

METHOD OF DETERMINING BOX DIMENSIONS

1. Layout panel as shown in typical example on a following page. Note that circuits 100 ampere or less are arranged double branch.
2. Total "X" units of height (X=2 $\frac{3}{8}$ inches).
3. Select box size from table of standard boxes. Note box width and depth from sketch on following page.

Total X Height	Box Height Inches	CABINETS 22" WIDE X 6 $\frac{1}{4}$ " DEEP				CABINETS 26" WIDE X 7 $\frac{1}{4}$ " DEEP			
		Boxes		Fronts		Boxes		Fronts	
		Catalog Number	‡ List Price Each	Catalog Number	‡ List Price Each	Catalog Number	‡ List Price Each	Catalog Number	‡ List Price Each
5X	24 $\frac{3}{8}$	CF603	\$17.00	CF603S	\$26.00				
8X	31 $\frac{3}{8}$	CF606	19.00	CF606S	28.00	CF706	\$29.00	CF706S	\$32.00
11X	38 $\frac{3}{8}$	CF609	21.00	CF609S	29.00	CF709	33.00	CF709S	35.00
14X	46	CF612	31.00	CF612S	32.00	CF712	46.00	CF712S	38.00
17X	53 $\frac{1}{8}$	CF615	34.00	CF615S	35.00	CF715	49.00	CF715S	42.00
20X	60 $\frac{1}{4}$	CF618	48.00	CF618S	50.00	CF718	61.00	CF718S	57.00
23X	67 $\frac{3}{8}$	CF621	57.00	CF621S	59.00	CF721	66.00	CF721S	66.00
26X	74 $\frac{1}{2}$	CF624	64.00	CF624S	68.00	CF724	70.00	CF724S	73.00
29X	81 $\frac{5}{8}$	CF627	70.00	CF627S	76.00	CF727	77.00	CF727S	77.00
32X	88 $\frac{3}{4}$	CF630	75.00	CF630S	80.00	CF730	84.00	CF730S	79.00
35X	95 $\frac{7}{8}$	CF633	78.00	CF633S	84.00	CF733	87.00	CF733S	87.00
38X	103					CF736	93.00	CF736S	91.00

For outside box dimensions add $\frac{1}{4}$ " to dimensions shown above.

Catalog numbered fronts are for surface mounting.

Flush front available at same price. Change suffix letter for "S" to "F."

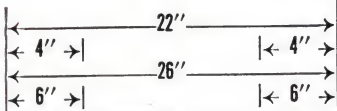
Removable box ends without knockouts furnished as standard. Knockouts furnished at no additional charge if complete information accompanies order.

‡ List prices apply only when box or front are ordered separately.

TRUMBULL DISTRIBUTION PANELBOARDS

CONVERTI-FUSE PANELBOARDS

Box and Gutter Width

Box
Depth

—Panels with maximum 200 ampere converti-fuse units (main or branch)

—Panels with 400 ampere units (main or branch)

6 1/4"

7 1/4"

6 3/8" constant
dimension

LIST PRICES
ARE "PER CIRCUIT"†

		6 3/8" constant dimension		LIST PRICES ARE "PER CIRCUIT"†								
NEUTRAL BAR		END SECTION With/without Neutral		No Neutral	Rating of Neutral Bar							
		List Price Each			200A.	400A.	600A.	800A.	1200A.			
		# Height—4 wire, 3 phase panels and panels with main switch			\$20.00	\$25.00	\$35.00	\$47.00	\$60.00			
		# Height—3 wire, solid neutral panels with main lugs only			1X	2X	4X	4X	4X			
					1X	2X	2X	2X	2X			
Blank Space †		BRANCH CIRCUITS		Poles	Height	Type	230 V. AC 250 V. DC	575V. AC				
30A	30A	30 Amp.	2	1X	2B	List per Cir.	Space only	List per Cir.	Space only			
60-30A	60-30A	60 or 30 Amp.	3	1X	3B	\$ 14.00†	\$ 5.50†	Not Available				
60-30A	60-30A	60 or 30 Amp.	2	1X	2A	20.00†	5.50†					
100-30A	100-30A	60 or 30 Amp.	3	1X	3A	17.00†	5.50†					
100A		100 Amp.	1	1X	A	24.00†	5.50†	\$ 25.00†	\$ 5.50†			
200A		200 Amp.	2	2X		See Below		31.50†	8.50†			
200A		200 Amp.	3	3X				37.00†	11.00†			
200A		200 Amp.	1	1X	B	16.00	5.50	Not Available				
400A		400 Amp.	2	2X		30.00	8.50					
		400 Amp.	3	3X		44.00	11.00					
		100 Amp.	1	1X	BC	Not Available		43.00	11.00			
		200 Amp.	2	2X		31.00	11.00	55.00	17.00			
		200 Amp.	3	3X		63.00	17.00	72.00	22.00			
		200 Amp.	1	1 1/2X	C	Not Available		Not Available				
		200 Amp.	2	3X		99.00	17.00					
		200 Amp.	3	4 1/2X		129.00	22.00					
		400 Amp.	1	2X	C	85.00	22.00	170.00	22.00			
		400 Amp.	2	4X		157.00	34.00	243.00	34.00			
		400 Amp.	3	6X		229.00	44.00	315.00	44.00			
MAIN LUGS or MAIN SWITCH		MAIN LUGS ONLY		Height #	Largest Branch 230V. AC 250V. DC			Largest Branch 575V. AC				
					100A.	200A.	400A.	200A.	400A.			
		200A (4/0 lugs)		1X	\$ 43.00	\$ 57.00		\$ 57.00				
		400A (500 MCM lugs)		2X	57.00	72.00	\$100.00	72.00	\$100.00			
		600A (1000 MCM lugs)		3X	86.00	100.00	129.00	100.00	129.00			
		800A (2-500 MCM lugs)		3X	129.00	129.00	164.00	129.00	164.00			
		1200A (2-1000 MCM lugs)		4X	178.00	178.00	214.00	178.00	214.00			
					230V. AC 250V. DC			575V. AC				
					2 Pole		3 Pole		2 Pole		3 Pole	
					Price	Hgt.	Price	Hgt.	Price	Hgt.	Price	Hgt.
		30 Amp.	2B, 3B*				A*	\$120.00	2X	\$131.00	3X	
		60 or 30 Amp.	2A, 3A*	\$ 77.00	1X	\$ 91.00	1X	A*	120.00	2X	131.00	3X
		100, 60 or 30 A.	A	73.00	2X	87.00	3X	B	112.00	2X	129.00	3X
		200 Amp.	B	120.00	2X	151.00	3X	BC	186.00	3X	214.00	4 1/2X
		400 Amp.	C	257.00	4X	329.00	6X	C	343.00	4X	415.00	6X
		6 3/8" constant dimension		* Price of main switch includes one branch circuit of same or smaller size. † Blank fillers in units of 1/2X or 1X should be added as necessary to fit minimum size standard box.								

6 3/8" constant
dimension

* Price of main switch includes one branch circuit of same or smaller size.

† Blank fillers in units of 1/2X or 1X should be added as necessary to fit minimum size standard box.

‡ List price is "PER CIRCUIT" but those marked ‡ must be priced in pairs. 30 and 60 amp. circuits can be assorted in pairs with the larger circuit of the pair governing the price. Blank spaces may not be combined with circuits to make a pair. Total Panel List Price includes box and front.

Height of end sections include necessary space to provide larger wiring gutters. All wiring gutters conform to Underwriters' Laboratories standards.

X = 2 3/8 Inches

TRUMBULL DISTRIBUTION PANELBOARDS

CONVERTI-FUSE DISTRIBUTION PANELBOARDS

PRICING METHOD

Total List Price, including Box and Front, is sum of the following:
Neutral Bar (if required)

plus

Branch Circuits—For double branch circuits, list price is “per circuit” but must be priced in pairs. Circuits 30, 60 or 100 amperes can be assorted in pairs, with largest unit governing the price. Blank spaces may not be combined with circuits to make a pair.

plus

Base List Price—Main lugs or main switch as required

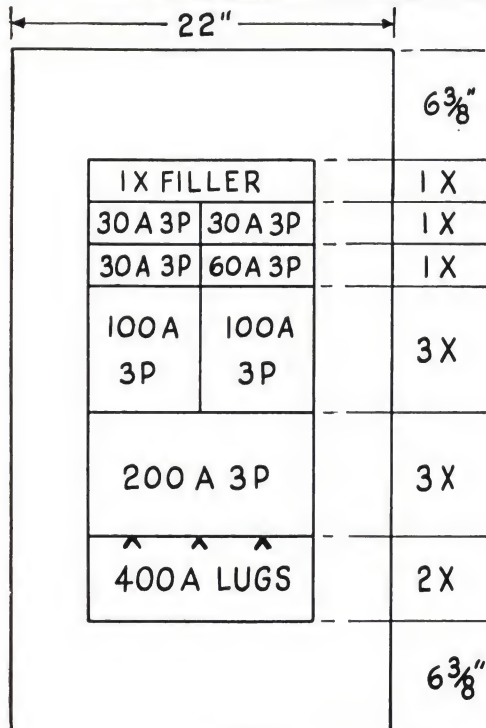
plus

Additions for special features if required as listed below

ADDITIONS FOR SPECIAL FEATURES

(For dimensions refer to nearest Trumbull Office)

No. of Bus Bars	200 Amperes	400 Amperes	600 Amperes	800 Amperes	1200 Amperes
SUB FEED, DOUBLE OR FEED-THRU LUGS					
2	\$14.00	\$29.00	\$50.00	\$72.00	\$ 86.00
3	19.00	34.00	57.00	79.00	92.00
SPLIT BUS AND METER LOOP					
2	35.00	43.00	50.00	72.00	86.00
3	43.00	50.00	57.00	79.00	92.00



TYPICAL EXAMPLE

Converti-fuse panel for 3-wire, 3-phase, 230-volt service with 400-ampere main lugs and one 200, two 100, one 60 and three 30 ampere 3-pole circuits and space for two 30 ampere 3 pole circuits.

11X Height

Box Size 22" Wide x 38 7/8" High x 6 1/4" Deep.

Box Catalog Number—CF609.

Pricing Applied to Typical Example

Space for two 30 Ampere, 3-pole circuits @ \$5.50 (1X filler)	\$ 11.00
Two 30 Ampere, 3-pole "3B" circuits @ \$20.00	40.00
One 30 Ampere, 3-pole "3A" circuit	24.00
One 60 Ampere, 3-pole "3A" circuit	24.00
Two 100 Ampere, 3-pole "A" circuits @ \$44.00	88.00
One 200 Ampere, 3-pole "B" circuit	94.00
400 Ampere main lugs (max. 200 Ampere circuit)	72.00

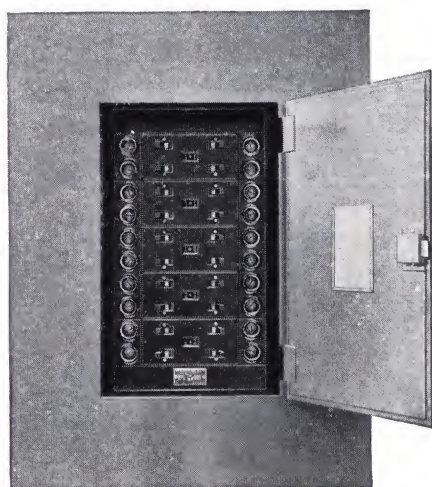
Total list price..... \$353.00

TRUMBULL LIGHTING AND POWER

Distribution

Panelboards

Trumbull offers a complete line of Panelboards which fall into two general classifications — those designed for medium loads generally required by lighting systems, and those designed for heavy duty industrial power distribution.

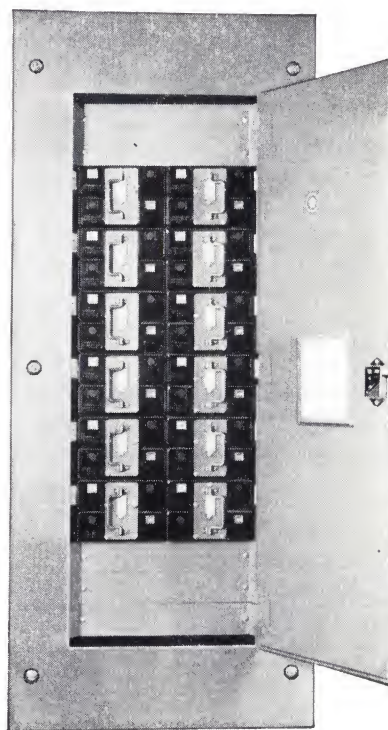


Type NTP, typical lighting panelboard

Panelboards for lighting systems range in type from the new and inexpensive NTPS, which is especially suited for use as a relatively light load distribution center, such as that required by the average home, to the higher priced NAB which embodies circuit breaker protection — considered the best kind of protection for heavy duty lighting systems. Other Trumbull Lighting Panelboards include the NTPR and the NTP, both of which are of the switch and fuse type designed for group and branch circuit control of lighting distribution for all commercial applications, such as lighting in modern factories, office buildings, hospitals and similar structures. Engineered to provide safe control, these panelboards are styled to harmonize with all types of modern interior designs.

Power distribution panelboards which can carry loads up to 1200 amperes, are manufactured in five

types. Circuit breaker protection is available in the relatively inexpensive ABH and MH panels and also in the deluxe Convertible Circuit Breaker type, which provides each branch circuit with individual heavy duty automatic circuit breakers.

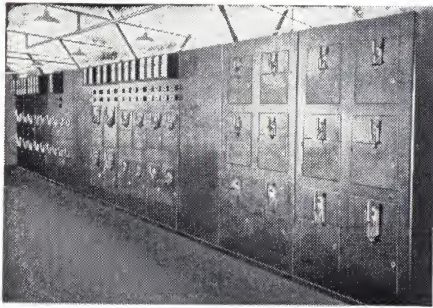


Converti-fuse, typical panelboard for power distribution

Converti-Fuse,[®] an extremely flexible and compact distribution panel, and Swing-Wa,[®] featuring an ingenious switching mechanism which is built into the cover of the unit, are two well known switch and fuse power distribution panelboards. Both give maximum protection and flexibility to main and branch circuits, making the addition of branch circuits after the original installation a relatively easy matter.

TRUMBULL SWITCHBOARDS

- Dead front
- Maximum 600 volts AC
- Easy installation—factory prefabricated



F.O.I. Switchboard

F.O.I. SWITCHBOARDS

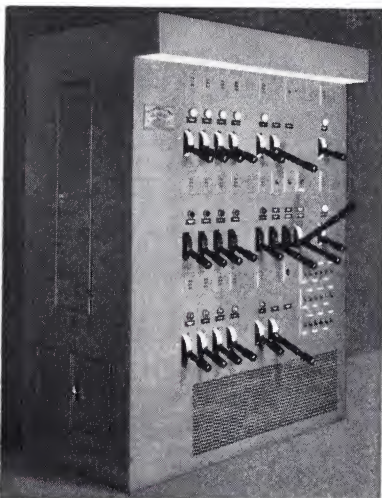
are designed for flexibility, safety, low-maintenance cost and reliability. Used as heavy duty distribution centers for modern industry, they are assemblies of formed steel panels which contain F.O.I. (front operated interlocking) units. These units are fusible switches of heavy duty Type A parts and are rated from 30 to 1200 amperes, up to 600 volts AC or DC and in 2, 3 or 4 pole construction.

CIRCUIT BREAKER SWITCHBOARDS

are compactly designed for small space installation, yet their unit construction makes them easily adaptable for future expansion. Featuring automatic overload protection for heavy-duty industrial and commercial applications, these switchboards are composed of circuit breaker units which have both thermal and magnetic trips. They are rated from 15 to 600 amperes; up to 600 V. AC or 250 V. DC; and are available in 1, 2 and 3 pole construction.



Circuit Breaker Switchboard



Controlite

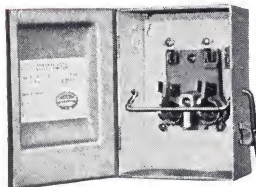
CONTROLITE

is a combined switchboard and dimmer bank that is used wherever control of lighting is desired — in such places as theatres, auditoriums, arenas, schools, lodges, night clubs, and stores. Because of controlite's complete internal wiring, installation is merely a matter of making connections to main lugs and branch circuit terminals. Main and branch circuits are protected by built-in over-current protective devices. Controlite is manufactured in three basic types: 1. using resistance dimmer plates; 2. using Autrastat (auto-transformer) dimmers; 3. Electronic type using saturable reactors. Any desired combination of control for both switching and dimming may be obtained; however, of the three types, only the electronic incorporates preset dimming.

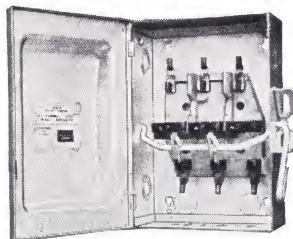
Note: Complete price information for above products is available from your McLaughlin Sales Representative.

CUTLER-HAMMER SAFETY SWITCHES TYPE D—SINGLE-THROW—SIDE OPERATED

Positive Make and Quick Break*
Not Cover Interlocked



No. 4141H201



No. 4143H302

FUSIBLE 2-Pole, 250 Volts

Cat. No.	Amps.	Poles	Wt. Lbs. Each	Price Each
4141H201*†	30	2	4	\$3.50
4143H201	30	2	5	4.40
4143H202	60	2	12	9.35
4143H203	100	2	18	21.00
4143H204	200	2	40	39.00
4143H205	400	2	140	106.00
4143H206	600	2	180	209.00

3-Pole, 230 Volts A.C.

4141H301*†	30	3	6	6.60
4143H301	30	3	7	8.25
4143H302	60	3	15	17.00
4143H303	100	3	20	24.00
4143H304	200	3	63	53.00
4143H305	400	3	175	122.00
4143H306	600	3	219	241.00

4-Pole, 230 Volts A.C.

4143H401	30	4	11	12.00
4143H402	60	4	17	23.00
4143H403	100	4	20	52.00
4143H404	200	4	92	94.00
4143H405	400	4	200	174.00
4143H406	600	4	240	319.00

2-Wire Solid Neutral (1 Blade, 1 Fuse) 125 Volts

4141H241*	30	2	4	2.95
4143H241	30	2	5	3.30

3-Wire Solid Neutral (2 Blades, 2 Fuses) 125-250 Volts D.C.

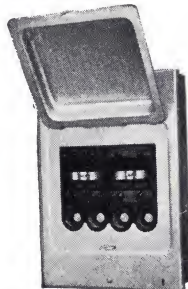
4141H341*	30	3	4 1/2	3.85
4143H341	30	3	8	5.50
4143H342	60	3	11	9.35
4143H343	100	3	19	22.00
4143H344	200	3	60	48.00
4143H345	400	3	172	116.00
4143H346	600	3	210	224.00

M-S-F SEQUENCE

Bulletin 4334

Pull-out type Main and Range switches. Dead front construction. 3-wire grounded solid neutral. Also available with Meter End Wall.

The flush mounting type has cover finished in gray enamel.

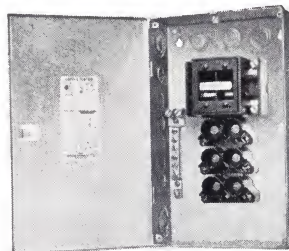


With Main and Range Units in Series

Cat. No.	Amps.	Volts A.C.	Main	Range	Lighting	Price Surface	Price Flush
4334H15	60	115-230	2-60	2-60	4 P	\$12.00	\$12.00
4334H23	60	115-230	2-60	2-60	6 P	19.80	19.80
4334H24	60	115-230	2-60	2-60	8 P	26.00	26.00

CUTLER-HAMMER SERVICE CONTROL METER-SWITCH-FUSE SEQUENCE

Bulletin 4330



No. 4330H26
Dead Front Plate Removed

Pull-out type main switch. With and without branch circuits. Accessible Fuses — Dead front construction.

Solidly grounded neutral service.

60 Ampere—3 Wire Solid Neutral 125-250 Volt A.C. Service Flush Mounting Type

Cat. No.	No. of Circuits Lighting 30 Amp.	Main 60 Amp.	Shpg. Wt. Each	Price Each
4330H21F	0	1	8	\$9.35
4330H24F	4	1	14	11.65
4330H26F	6	1	15	17.60
4330H28F	8	1	16	25.00

Surface Mounting Type

4330H21S	0	1	8	11.00
4330H24S	4	1	14	13.00
4330H26S	6	1	15	18.50
4330H28S	8	1	16	24.00
4330H31*	0	1	12	13.00

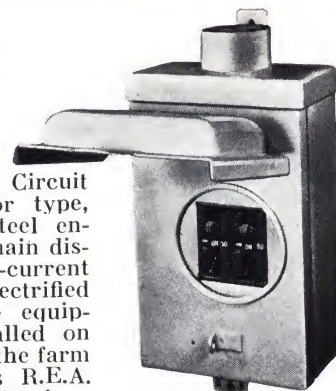
*Raintight.

Order must specify flush mounting when desired.

HEINEMANN "RE-CIRK-IT" CIRCUIT BREAKERS

HEINEMANN R.E.A. SERVICE EQUIPMENT

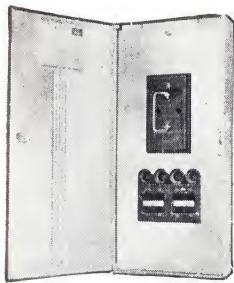
These Magnetic Circuit Breakers in outdoor type, corrosion-proofed steel enclosure, service as main disconnect and over-current protection for the electrified farm. This service equipment may be installed on the yard pole or on the farm building and meets R.E.A. as well as Underwriters' requirements.



No. MH802-50

Cat. No.	Description	List Price
MH801-35	Serv. Equip. 1-35 amp. Breaker	\$10.37
MH802-35	Serv. Equip. 2-35 amp. Breakers	13.45
MH802-50	Serv. Equip. 2-50 amp. Breakers	13.45
MH800	Service Equip. Encl. only.....	6.35
0412-35	Circuit Breaker only, 35 amp.....	3.20
0412-50	Circuit Breaker only, 50 amp.....	3.20

CUTLER-HAMMER SERVICE CONTROL METER-SWITCH-FUSE SEQUENCE



No. 4336H2

Bulletin 4336

Pull out type main switch. Dead front construction. 3-wire grounded solid neutral. Non-interchangeable pull-outs. Convenient fuse testing facilities. Slots in cover and case for sealing purposes.

Gray finish.

100 Amps., 125-250 Volts A.C.

Cat. No.	Main Fuses	Branch Circuit Fuses		Shpg. Wt. Lbs.	Price Each	
		Cart-ridge	Plug		Surface	*Flush
4336H4	2-100	4-60	8-30	30	\$46.00	\$50.00

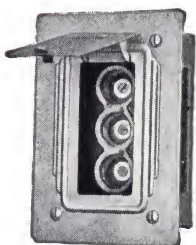
*Order must specify flush mounting when desired.

†Also suitable for 230 volts A-c.

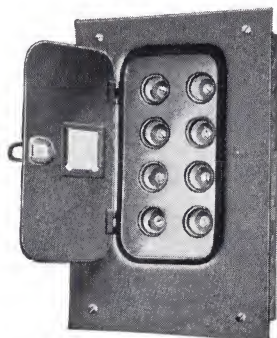
FUSE PANELS

Bulletin 4385

Flush and surface mounting types. Gray enamel finish. The dead front plate and mechanism are easily removable.



No. 4385H1F

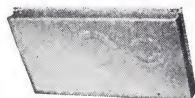


No. 4385H8F

Flush Mounting Type				Surface Mounting Type			
Cat. No.	Wt. Lbs.	Price Each	No. of Cir.	Cat. No.	Wt. Lbs.	Price Each	No. of Cir.
4385H2F	4½	\$3.40	2	4385H2S	5	\$3.40	2
4385H1F	4	4.00	3				
4385H4F	6	4.60	4	4385H4S	7	4.60	4
4385H6F	9	7.70	6	4385H6S	9	7.70	6
4385H8F	12	10.45	8	4385H8S	12	10.45	8
4385H10F	15	15.40	10	4385H10S	15	15.40	10
4385H12F	17	20.90	12	4385H12S	17	20.90	12

C-H END WALLS

Fit all standard switches and devices made by other manufacturers.



For 30-Ampere Boxes

Cat. No.	Description	Price Each
4360H60	Universal End Wall.....	\$0.80
4360H62	Conduit End Wall.....	.80

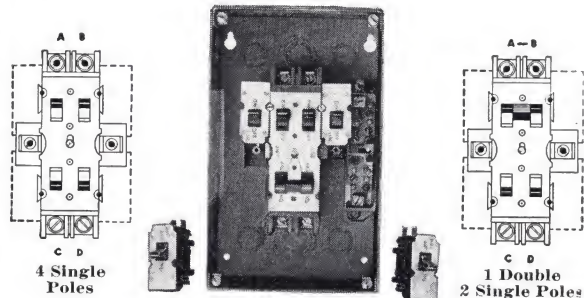
For 60 and 100 Ampere Boxes

4360H80	Conduit End Wall.....	.70
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CUTLER-HAMMER MULTI-BREAKERS

AD-ON TYPE MO-8 (Formerly MB-4)

Thermal Magnetic—Quick Tripping



Surface Mounting—with cover removed showing Ad-On Units installed and ready for installation.

3 Wire S/N 120/240 Volts A-C—Insulated (Groundable) Solid Neutral

Main or Branch Circuits				70 Ampere Mains		100 Ampere Mains	
Position				Cat. No.	Price Each	Cat. No.	Price Each
A	B	C	D				
1 Pole							
15A	15A	15A	15A	21111	\$18.00	81111	\$21.00
15A	15A	15A	20A	21112	18.00	81112	21.00
15A	15A	15A	30A	21113	18.00	81113	21.00
20A	20A	15A	15A	22211	18.00	82211	21.00
20A	20A	20A	20A	22222	18.00	82222	21.00
30A	30A	15A	15A	23311	18.00	83311	21.00
30A	30A	30A	30A	23333	18.00	83333	21.00
2 Pole							
15A	15A	15A	15A	29111	\$18.30	89111	\$21.30
20A	15A	15A	20A	29211	18.30	89211	21.30
20A	20A	20A	20A	29222	18.30	89222	21.30
30A	15A	15A	15A	29311	18.30	89311	21.30
40A	15A	15A	15A	29411	18.30	89411	21.30
40A	15A	20A	20A	29412	18.30	89412	21.30
40A	20A	20A	20A	29422	18.30	89422	21.30
40A	30A	30A	30A	29433	18.30	89433	21.30
50A	15A	15A	15A	29511	18.30	89511	21.30
50A	15A	20A	20A	29512	18.30	89512	21.30
50A	20A	20A	20A	29522	18.30	89522	21.30
50A	30A	30A	30A	29533	18.30	89533	21.30
2 Pole							
15A	15A	15A	15A	29191	\$18.60	89191	\$21.60
20A	15A	15A	15A	29291	18.60	89291	21.60
20A	20A	20A	20A	29292	18.60	89292	21.60
30A	20A	20A	20A	29392	18.60	89392	21.60
30A	30A	30A	30A	29393	18.60	89393	21.60
40A	15A	15A	15A	29491	18.60	89491	21.60
40A	20A	20A	20A	29492	18.60	89492	21.60
40A	30A	30A	30A	29493	18.60	89493	21.60
40A	40A	40A	40A	29494	18.60	89494	21.60
50A	15A	15A	15A	29591	18.60	89591	21.60
50A	20A	20A	20A	29592	18.60	89592	21.60
50A	30A	30A	30A	29593	18.60	89593	21.60
50A	40A	40A	40A	29594	18.60	89594	21.60
50A	50A	50A	50A	29595	18.60	89595	21.60

SINGLE POLE "AD-ON" UNITS

Thermal Magnetic—Quick Tripping—120 Volts A-C

Poles	Rating	Cat. No.	Price
1	15 A	115 A	\$2.70
1	20 A	120 A	2.70
1	30 A	130 A	2.70

AD-ON units listed above are for use only with Type MO8 Multi-Breakers.

AD-ON units of same rating are packed 10 to a carton.

Handle tie for basic MO8 devices. Cat. No. 40HT. List Price \$0.10.

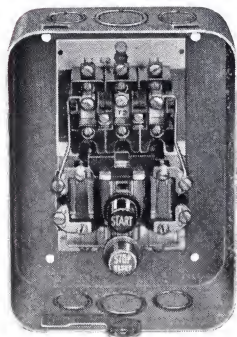
Cat. No. covers enclosure with neutral and a 4 pole block with space for 4 additional AD-ON units.

CLARK CONTROLLER MANUAL STARTERS

Bulletin 6002

ACROSS-THE-LINE TYPE—PUSH BUTTON OPERATED

110 to 550 Volts A.C., 25 to 60 Cycle



Push Button Operated
Size 1 Starter
Standard Enclosure

Bulletin 6002 Manual Starters are designed for across-the-line starting of A.C. motors.

Contacts trip free.

Interlocked cover on lever operated types.

Push button operated type suitable for group fusing.

Silver-to-silver, double break contacts.

Quick make and quick break.

Thermal overload protection with interchangeable heaters.

DISCOUNT SCHEDULE MA

★LIST PRICES AND CATALOG NUMBERS

MAXIMUM HORSEPOWER RATING A. C. Only			Size	Poles	NON-REVERSING					REVERSING	
					Type 1 Standard Enclosure	Type 5 Dust- Tight Enclosure	Type 3 Weather- Proof Enclosure	Type 7 Class 1 Group D Enclosure	Type U Open Starter	Type 1 Standard Enclosure	Type U Open Starter
110 Volts	208 and 220 Volts	440 to 550 Volts									
PUSH BUTTON OPERATED											
1	1½	1½	0	2	\$9.90 Catalog No. 1390	\$25.85 Catalog No. 1390D	\$25.85 Catalog No. 1390W	\$33.00 Catalog No. 1370E	\$9.10 Catalog No. 1390U	..... Catalog No. .....	..... Catalog No.
1½	2	2	0	3	\$11.00 1391	\$26.95 1391D	\$26.95 1391W	\$34.00 1371E	\$10.20 1391U	\$33.00 27821	\$32.00 27821U
1½	2	2	0	4	\$16.50 1394	\$31.00 1394D	\$31.00 1394W	..... .....	\$15.70 1394U	\$42.00 27822	\$40.00 27822U
1½	3	5	1	2	\$12.65 1392	\$32.00 1392D	\$32.00 1392W	\$39.00 1372E	\$11.55 1392U	..........	..........
3	5	7½	1	3	\$13.75 1393	\$33.00 1393D	\$33.00 1393W	\$40.00 1373E	\$12.65 1393U	\$43.00 27824	\$41.00 27824U
3	5	7½	1	4	\$19.25 1395	\$36.00 1395D	\$36.00 1395W	..... .....	\$18.15 1395U	\$53.00 27825	\$51.00 27825U

HEATER APPLICATION DATA FOR STANDARD SQUIRREL CAGE MOTORS

HEATER APPLICATION DATA FOR STANDARD SQUARE SIZE MOTORS									
Horse Power	THREE PHASE						SINGLE PHASE		Horse Power
	220 Volts		440 Volts		550 Volts		110 Volts		
	Full Load Amps.	Catalog No.	Full Load Amps.	Catalog No.	Full Load Amps.	Catalog No	Full Load Amps.	Catalog No.	
1/6	.9	42002	.45	42000	.36	42000	3.3	42010	1/6
1/4	1.1	42003	.55	42000	.44	42000	4.8	42012	1/4
1/3	1.3	42005	.65	42000	.52	42000	5.8	42013	1/3
1/2	1.8	42006	.90	42002	.72	42001	7.0	42014	1/2
3/4	2.5	42009	1.3	42005	1.04	42003	9.4	42017	3/4
1	3.6	42010	1.8	42006	1.5	42006	11.0	42018	1
1 1/2	5.1	42012	2.6	42009	2.1	42007	15.2	42022	1 1/2
2	6.5	42014	3.3	42010	2.7	42009	20.0	42023	2
3	9.2	42017	4.6	42012	3.7	42011	....	....	3
5	14.5	42021	7.3	42015	5.9	42013	....	....	5
7 1/2	....	....	10.6	42018	8.5	42016	....	....	7 1/2

*NOTES

- Price includes starter complete with overload relays and heater elements. One heater element is included with 2 pole starters, and 2 heater elements are included with 3 and 4 pole starters.
- Heater elements may be omitted at 85 cents list each or \$1.65 list per pair. Extra heaters may be purchased at 85 cents list each or \$1.65 list per pair.
- GROUP FUSING: If group fusing is required, add "G" to the catalog number; no additional charge.

CLARK CONTROLLER A.C. MAGNETIC STARTERS

Bulletin 6013

NON-REVERSING ACROSS-THE-LINE



No. 13A31

No. 13AC31

No. 13AB31

***SUFFIX TABLE FOR COIL VOLTS AND CYCLES**
Select catalog number of starter and add suffix from following table. If coil voltage source differs from power voltage, please specify.

Volts	Cycles				
	60	50	40	30	25
110	—16	—15	—14	—13	—12
208-220	—26	—25	—24	—23	—22
440	—46	—45	—44	—43	—42
550	—56	—55	—54	—53	—52

EXAMPLE: No. 13A20-46 (440 volts, 60 cycle)

DISCOUNT SCHEDULE MA

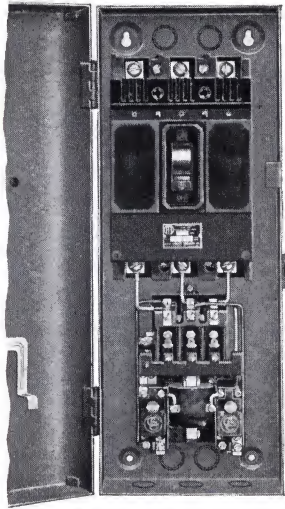
LIST PRICES (INCLUDING HEATERS) AND *CATALOG NUMBERS

MAXIMUM HORSEPOWER RATING			Size	Poles	TYPE 1 ENCLOSURE (GENERAL PURPOSE)			TYPE 4 ENCLOSURE (WATERTIGHT)		TYPE 5 ENCLOSURE (DUSTTIGHT)		TYPE 7 ENCLOSURE CLASS 1 GROUP D		TYPE U OPEN STARTER
110 Volts	208 and 220 Volts	440 to 550 Volts			Form MA Reset Button only in Cover for Separate Push Button	Form MC Start-Stop Push Button in Cover	Form MB Hand-Off-Auto Selector Switch in Cover	Form MA Reset Button only in Cover for Separate Push Button	Form MC Start-Stop Push Button in Cover	Form MA Reset Button only in Cover for Separate Push Button	Form MC Start-Stop Push Button in Cover	Form MA Reset Button only in Cover for Separate Push Button	Form MC Start-Stop Push Button in Cover	
1	1½	1½	0	2	\$16.50 Cat. No. 13A20	\$19.25 Cat. No. 13AC20	\$19.25 Cat. No. 13AB20	\$34. Cat. No. 13WA20	\$44. Cat. No. 13WC20	\$34. Cat. No. 13DA20	\$44. Cat. No. 13DC20	.....	.....	\$15.15 Cat. No. 13U20
1½	2	2	0	3	\$19.25 Cat. No. 13A30	\$22.00 Cat. No. 13AC30	\$22.00 Cat. No. 13AB30	\$37. Cat. No. 13WA30	\$47. Cat. No. 13WC30	\$37. Cat. No. 13DA30	\$47. Cat. No. 13DC30	.....	.....	\$17.90 Cat. No. 13U30
1½	2	2	0	4	\$23.40 Cat. No. 13A40	.....	\$26.15 Cat. No. 13AB40	\$43. Cat. No. 13WA40	.....	\$43. Cat. No. 13DA40	.....	.....	.....	\$22.00 Cat. No. 13U40
1½	3	5	1	2	\$19.25 Cat. No. 13A21	\$22. Cat. No. 13AC21	\$22. Cat. No. 13AB21	\$37. Cat. No. 13WA21	\$47. Cat. No. 13WC21	\$37. Cat. No. 13DA21	\$47. Cat. No. 13DC21	.....	.....	\$17.90 Cat. No. 13U21
3	5	7½	1½	2	\$24.75 Cat. No. 13A251	\$28. Cat. No. 13AC251	\$28. Cat. No. 13AB251	\$44. Cat. No. 13WA251	.....	\$44. Cat. No. 13DA251	.....	.....	.....	\$23.40 Cat. No. 13U251
3	5	7½	1	3	\$22. Cat. No. 13A31	\$24.75 Cat. No. 13AC31	\$24.75 Cat. No. 13AB31	\$40. Cat. No. 13WA31	\$50. Cat. No. 13WC31	\$40. Cat. No. 13DA31	\$50. Cat. No. 13DC31	\$73. Cat. No. 13EA31	\$88. Cat. No. 13EC31	\$20.65 Cat. No. 13U31
3	5	7½	1	4	\$26.15 Cat. No. 13A41	.....	\$29. Cat. No. 13AB41	\$45. Cat. No. 13WA41	.....	\$45. Cat. No. 13DA41	.....	\$77. Cat. No. 13EA41	.....	\$24.75 Cat. No. 13U41
7½	15	25	2	3	\$42. Cat. No. 13A32	\$47. Cat. No. 13AC32	\$47. Cat. No. 13AB32	\$78. Cat. No. 13WA32	\$89. Cat. No. 13WC32	\$64. Cat. No. 13DA32	\$75. Cat. No. 13DC32	\$131. Cat. No. 13EA32	.....	\$37. Cat. No. 13U32
7½	15	25	2	4	\$50. Cat. No. 13A42	.....	\$55. Cat. No. 13AB42	\$102. Cat. No. 13WA42	.....	\$78. Cat. No. 13DA42	.....	.....	.....	\$45. Cat. No. 13U42
15	30	50	3	3	\$69. Cat. No. 13A33	\$78. Cat. No. 13AC33	\$78. Cat. No. 13AB33	\$120. Cat. No. 13WA33	.....	\$95. Cat. No. 13DA33	.....	.....	.....	\$59. Cat. No. 13U33
15	30	50	3	4	\$84. Cat. No. 13A43	\$92. Cat. No. 13AC43	\$92. Cat. No. 13AB43	\$149. Cat. No. 13WA43	.....	\$124. Cat. No. 13DA43	.....	.....	.....	\$75. Cat. No. 13U43
25	50	100	4	3	\$154. Cat. No. 13A34	.....	.....	\$241. Cat. No. 13WA34	.....	\$197. Cat. No. 13DA34	.....	.....	.....	\$133. Cat. No. 13U34
25	50	100	4	4	\$202. Cat. No. 13A44	.....	.....	\$325. Cat. No. 13WA44	.....	\$260. Cat. No. 13DA44	.....	.....	.....	\$182. Cat. No. 13U44
50	100	200	5	3	\$311. Cat. No. 13A35	.....	.....	\$411. Cat. No. 13WA35	.....	\$411. Cat. No. 13DA35	.....	.....	.....	\$276. Cat. No. 13U45
50	100	200	5	4	\$397. Cat. No. 13A45	.....	.....	.....	.....	.....	.....	.....	.....	\$363. Cat. No. 13U45
...	200	400	6	3	\$917. Cat. No. 13A36	.....	.....	.....	.....	.....	.....	.....	.....	\$744. Cat. No. 13U36
...	400	750	7	3	\$1090. Cat. No. 13A37	.....	.....	.....	.....	.....	.....	.....	.....	\$917. Cat. No. 13U37

HEATER ELEMENTS FOR 40° C. RISE MOTORS FOR USE IN ENCLOSED STARTERS

Starter Size	Horse Power	CATALOG NUMBERS				Starter Size	Horse Power	CATALOG NUMBERS			
		Three Phase						Three Phase			
		208 V.	220 V.	440 V.	550 V.			208 V.	220 V.	440 V.	550 V.
0 and 1	$\frac{1}{16}$	S 1.15	S 1.05	S 0.6	S 0.6	2	$7\frac{1}{2}$	S 25.5	S 25.5	S 15.5	S 12.5
	$\frac{1}{8}$	S 1.55	S 1.4	S 0.76	S 0.6		10	S 33.0	S 30.0	S 23.0	S 19.0
	$\frac{1}{4}$	S 1.9	S 1.7	S 0.84	S 0.66		15	S 50.0	S 45.0	S 30.0	S 25.5
	$\frac{3}{8}$	S 2.5	S 2.3	S 1.15	S 0.93		20	.....	.....	S 37.5	S 30.0
	$\frac{1}{2}$	S 3.3	S 3.3	S 1.55	S 1.26		25	.....	.....	.....	.....
	1	S 4.4	S 4.0	S 2.1	S 1.70	3 and 4	20	L 63.0	L 63.0	.....	.....
	$1\frac{1}{2}$	S 6.5	S 5.9	S 3.0	S 2.5		25	L 76.0	L 76.0	.....	.....
	2	S 7.8	S 7.2	S 3.7	S 3.0		30	L 92.0	L 92.0	L 43.0	L 35.0
	3	S 11.5	S 10.5	S 5.3	S 4.4		40	L 120.0	L 120.0	L 57.0	L 47.0
	5	S 19.0	S 17.0	S 8.6	S 7.2		50	L 150.00	L 150.0	L 69.0	L 57.0
$7\frac{1}{2}$	.....	.....	S 12.5	S 8.6	60		.....	.....	L 92.0	L 69.0	
	.....	.....	.....	.....	75		.....	.....	L 110.0	L 92.0	
	.....	.....	.....	.....	100	.....	.....	L 150.0	L 120.0		

CLARK CONTROLLER A.C. COMBINATION MAGNETIC STARTERS

Bulletin 6020
NON-REVERSING—WITH AIR-CIRCUIT BREAKER
ACROSS-THE-LINESize 1 Form MA Starter
in NEMA Type 1 Enclosure

Bulletin 6020 non-reversing combination across-the-line starters are designed to provide full voltage starting and overload protection for squirrel cage motors, and can be used as primary switches for wound rotor induction motors.

This type of starter consists of a contactor for making and breaking the power circuit to the motor, a circuit breaker for short circuit protection, and an overload device for removing the motor from the line in the event of a dangerous overload.

The Bulletin 6020 starter combines circuit breaker, contactor and overload device in a common enclosure.

NOTES

1. Price includes starter complete with normally open interlock, overload relays, and circuit breaker. Starter sizes 0 to 4 incl. use thermal type overloads. The thermal overload relays include 2 heaters.
2. Heater elements may be omitted at 60 cents list each or \$1.20 list per pair. Extra heaters may be purchased at 60 cents list each or \$1.20 list per pair.

The Circuit Breaker is the De-ion type high interrupting capacity air circuit breaker which provides short circuit protection. Double break silver-to-silver contacts.

Hinged armature magnet.

Eutectic alloy type thermal overload relays provide motor overload protection.

Molded arc shields are non-carbonizing.

Form wound operating coil.

De-ion type circuit breaker.

Starter assembly mounted on steel sub-panel.

Enclosures allow ample space for wiring.

DISCOUNT SCHEDULE MA

LIST PRICES

DISCOUNT SCHEDULE MAX		Size	Circuit Breaker Frame Size in Amperes	TYPE 1 ENCLOSURE (GENERAL PURPOSE)			TYPE 1A ENCLOSURE (SEMI DUST-TIGHT)			TYPE 5 ENCLOSURE (DUST-TIGHT)		TYPE 7 ENCLOSURE (CLASS 1 GROUP D)	
MAXIMUM HORSE POWER RATING	Form MA For Separate Push Button			Form MC Start-Stop Push Button in Cover	Form MB Hand-Off-Auto. Selector Switch in Cover	Form MA For Separate Push Button	Form MC Start-Stop Push Button in Cover	Form MB Hand-Off-Auto. Selector Switch in Cover	Form MA For Separate Push Button	Form MC Start-Stop Push Button in Cover	Form MA For Separate Push Button	Form MC Start-Stop Push Button in Cover	
	3 Pole Starters for 2 or 3 Phase												
110 Volts	208 or 220 Volts	110 and 208 or 220 Volts											
1½	2	0	50	\$ 35.	\$ 37.	\$ 37.	\$ 37.	\$ 39.	\$ 39.	\$ 48.	\$ 54.		
3	5	1	50	37.	39.	39.	39.	41.	41.	50.	56.	\$109.	\$115.
	10	2	50	53.	57.	57.	56.	60.	60.	69.	77.		
	15	2	100	71.	75.	75.	74.	78.	78.	87.	95.	150.	158.
	25	3	100	93.	99.	99.	97.	103.	103.	116.	124.		
	30	3	225	143.	149.	149.	147.	153.	153.	166.	174.		
	50	4	225	244.			251.			313.			
440 to 550 Volts		440 to 550 Volts											
2	0	50	\$ 38.	\$ 40.	\$ 40.	\$ 40.	\$ 42.	\$ 42.	\$ 51.	\$ 57.			
7½	1	50	40.	42.	42.	42.	44.	44.	53.	59.	\$109.	\$115.	
25	2	50	56.	60.	60.	59.	63.	63.	72.	80.			
25	2	100	74.	78.	78.	77.	81.	81.	90.	98.	150.	158.	
50	3	100	99.	105.	105.	103.	109.	109.	122.	130.			
50	3	225	159.	165.	165.	163.	169.	169.	183.	191.			
100	4	225	258.			265.			327.				

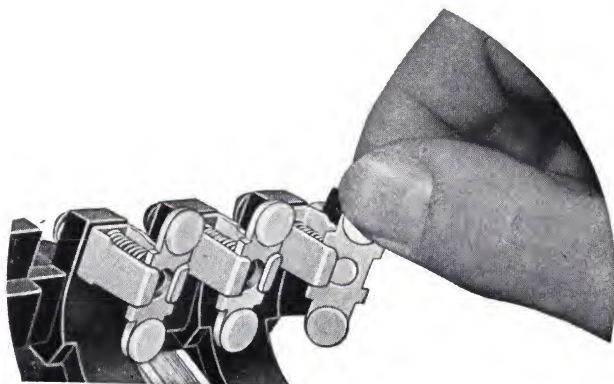
HEATER ELEMENTS FOR 40° C. RISE MOTORS

Starter Size	Horse Power	CATALOG NUMBERS				Starter Size	Horse Power	CATALOG NUMBERS			
		Three Phase						Three Phase			
		208 V.	220 V.	440 V.	550 V.			208 V.	220 V.	440 V.	550 V.
0 and 1	$\frac{1}{6}$	S 1.15	S 1.05	S 0.6	S 0.6	2	7½	S 23.0	S 23.0		
	$\frac{1}{4}$	S 1.55	S 1.4	S 0.66	S 0.6		10	S 30.0	S 27.5	S 14.0	S 12.5
	$\frac{1}{3}$	S 1.9	S 1.7	S 0.84	S 0.66		15	S 45.0	S 45.0	S 21.0	S 17.0
	$\frac{1}{2}$	S 2.5	S 2.3	S 1.15	S 0.93		20	.....	.....	S 27.5	S 23.0
	$\frac{3}{4}$	S 3.3	S 3.3	S 1.55	S 1.26		25	.....	.....	S 33.0	S 27.5
	1	S 4.4	S 4.0	S 2.1	S 1.70	3 and 4	20	L 63.0	L 63.0		
	1½	S 6.5	S 5.9	S 3.0	S 2.5		25	L 76.0	L 76.0		
	2	S 7.8	S 7.2	S 3.7	S 3.0		30	L 92.0	L 92.0	L 43.0	L 35.0
	2½	S 11.5	S 10.5	S 5.3	S 4.4		40	L 120.0	L 120.0	L 57.0	L 47.0
	3	S 19.0	S 17.0	S 8.6	S 6.5		50	L 150.0	L 150.0	L 69.0	L 57.0
	5			S 12.5	S 8.6		60	.....	.....	L 92.0	L 69.0
7½					75	.....	.....	L 110.0	L 92.0		
					100	.....	.....	L 150.0	L 120.0		

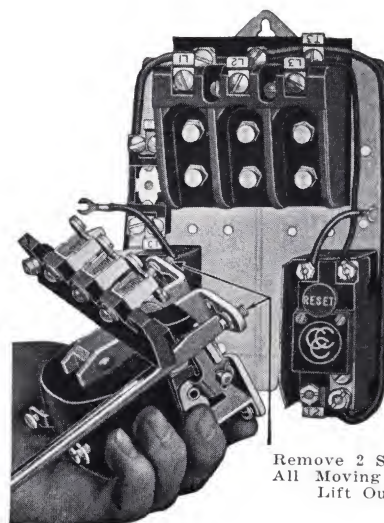
CLARK A.C. MAGNETIC STARTERS—BULLETIN 6013

Non-Reversing Across-the-Line

SIZES 0, 1 and 2—TYPE DS



A twist with the fingers is all that is required to remove worn contacts and replace the new ones. The contact pressure springs are anchored in position so that they will not fly out of place when the contacts are removed. The contacts are so designed that they can be slipped into position in the holders without hardly a glance. Alignment is automatic.



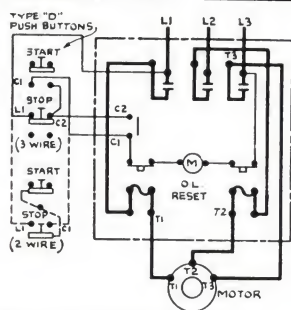
Remove 2 Screws:
All Moving Parts
Lift Out.

As illustrated above, the entire moving assembly may be removed for major maintenance purposes by loosening two screws which are retained in position by special spring clips. All moving parts are then exposed for easy handling.

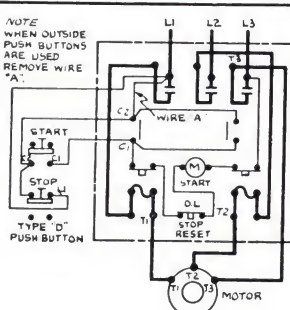
WIRING DIAGRAMS FOR BULLETIN 6013 SIZE 0, 1 AND 2 STARTERS

Control Circuit Same Source as Power Circuit

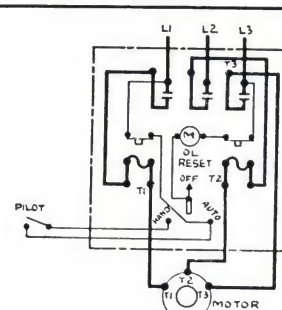
FORM MA—Reset button only in cover.



FORM MC—Reset Button and "Start-Stop" button in cover.

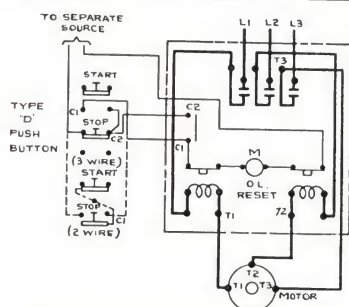


FORM MB—Reset button and selector switch in cover.

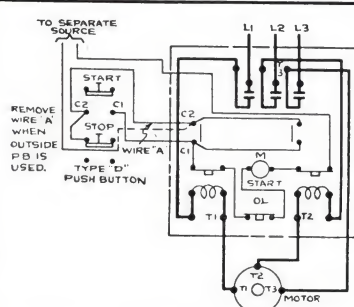


CONTROL CIRCUIT FROM SEPARATE SOURCE

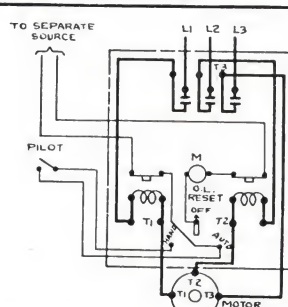
FORM MA—Reset button only in cover.



FORM MC—Reset Button and "Start-Stop" button in cover.



FORM MB—Reset button and selector switch in cover.



CLARK A.C. MAGNETIC STARTERS—BULLETIN 6013

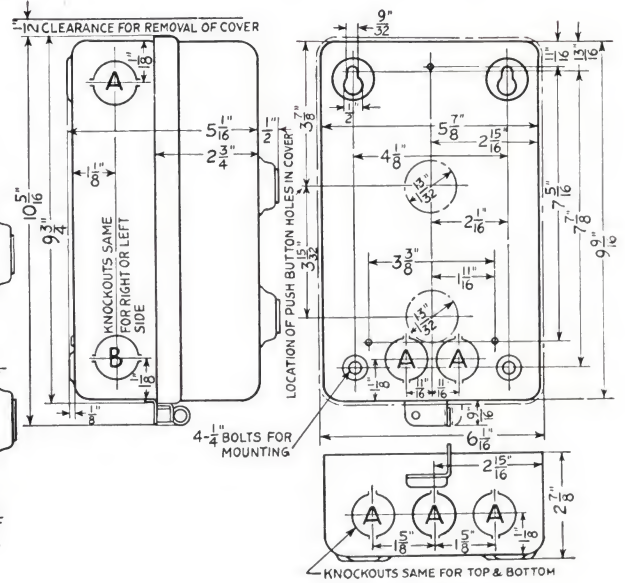
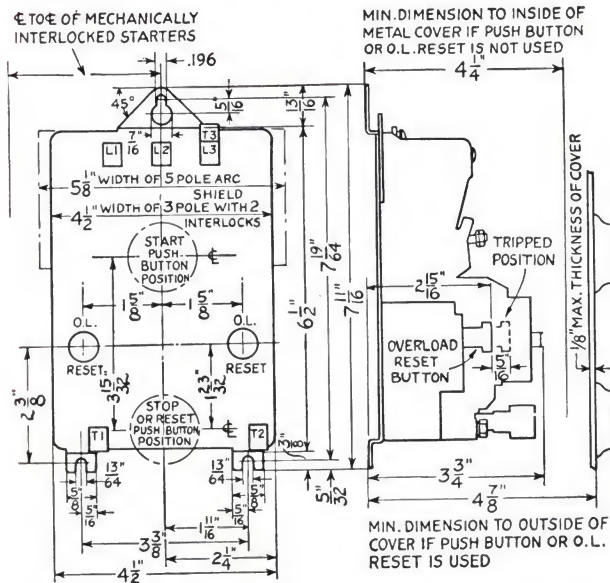
Non-Reversing Across-the-Line

SIZES 0, 1 and 2—TYPE DS

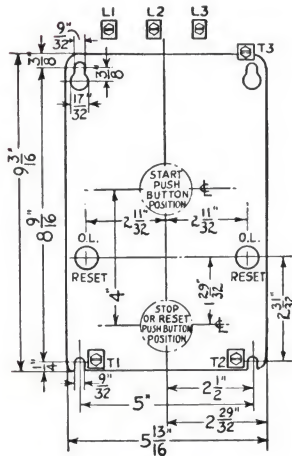
Approximate Outlet Dimensions

SIZE 0 and 1—OPEN TYPE

SIZE 0 and 1—ENCLOSED

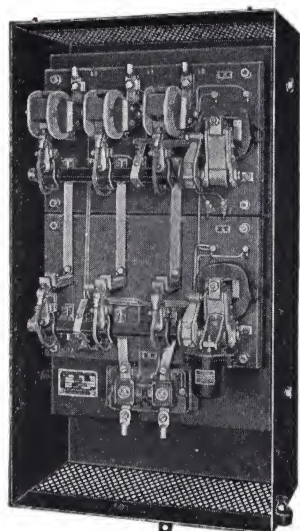


SIZE 2—OPEN



CLARK A.C. MAGNETIC STARTERS—BULLETIN 6080

PRIMARY RESISTOR TYPE FOR SQUIRREL CAGE MOTORS



Bulletin 6080 starters are designed to start A.C. squirrel cage motors by connecting the motors to the line through a resistor, thus reducing the voltage applied to the terminals of the motor. After a definite adjustable time, the resistor is short circuited, and full voltage is applied to the motor.

Ordering Instructions: Order as Follows: (Quantity)—Code No. () Bulletin 6080 Size (), () Point (non-reversing/reversing) Starter in NEMA Type () enclosure for () H.P., () Volt () Phase () Cycle motor. Full load current () Amperes.

NOTE: If additions or modifications are required, specify in full detail.

The illustration at left shows the Bulletin 6080 Starter, Size 4, front cover removed.

DISCOUNT SCHEDULE MA

*LIST PRICES AND CATALOG CODE NUMBERS

TWO POINTS OF ACCELERATION GENERAL STARTING SERVICE

MAXIMUM HORSEPOWER		Size	NON-REVERSING TYPE, 3 PHASE IN NEMA TYPE 1 ENCLOSURE				REVERSING TYPE, 3 PHASE IN NEMA TYPE 1 ENCLOSURE			
220 Volts	440-550 Volts		208-220 VOLTS		440-550 VOLTS		208-220 VOLTS		440-550 VOLTS	
			CATALOG CODE NO.	LIST PRICE	CATALOG CODE NO.	LIST PRICE	CATALOG CODE NO.	LIST PRICE	CATALOG CODE NO.	LIST PRICE
7 1/2	7 1/2	2	A58-41360A	\$197.00	A58-41360A	\$197.00	A58-45252A	\$285.00	A58-45252A	\$285.00
10	10		A58-41360A	207.00	A58-41360A	207.00	A58-45252A	294.00	A58-45252A	294.00
15	15		A58-41360A	215.00	A58-41360A	215.00	A58-45252A	304.00	A58-45252A	304.00
..	20		.....	.....	A58-41360A	232.00	.....	.....	A58-45252A	320.00
..	25		.....	.....	A58-41360A	242.00	.....	.....	A58-45252A	320.00
20	30	3	A58-48941A	278.00	A58-48942A	297.00	A58-49167A	422.00	A58-80694A	440.00
25	40		A58-48941A	288.00	A58-48942A	315.00	A58-49167A	431.00	A58-80694A	458.00
30	50		A58-48941A	297.00	A58-48942A	342.00	A58-49167A	440.00	A58-80694A	485.00
40	60	4	A58-43884A	635.00	A58-43884A	658.00	A58-49169A	873.00	A58-49169A	884.00
50	75		A58-43884A	635.00	A58-43884A	658.00	A58-49169A	873.00	A58-49169A	884.00
..	100		.....	.....	A58-43886A	658.00	.....	.....	A58-49169A	884.00

Larger sizes available—information on request.

*Notes

Price includes starter complete with main line contactor (two main line contactors for reversing starters), accelerating contactor, Class 116 edgewound accelerating resistor and duplex overload relay. Starter sizes 2, 3 and 4 are furnished with thermal type overloads. The thermal overload relay includes two heaters. Price does not include separate mounting push buttons. Refer to Bulletin 100 for types and prices.

CLARK PUSH BUTTONS—ASSEMBLED STATIONS



Code No. 1A3
Type EE Push
Button



Code No. A100-
54800A-1 Type DB
Three Element Push
Button

STANDARD DUTY—TYPES EE and DB

The Type EE and DB line of push buttons is offered for use on ordinary starter applications where the frequency of operation, contact requirements, or size of magnets controlled do not justify the use of the more expensive Bulletin 100 Type D Heavy Duty Stations.

These stations should not be used with contactors or starters larger than NEMA size 4, 150 ampere size.

*NOTES

1. List price includes assembled push button station complete with elements and name plates designated.
2. No modifications of these stations are available.
(a) If other arrangements are required, refer to the Heavy Duty Type D push button stations.

DISCOUNT SCHEDULE MA

LIST PRICES AND CATALOG CODE NUMBERS

NAME PLATE MARKING	No. of Elements	TYPE	FORM	Contact Symbol	CODE NUMBER	LIST PRICE
Start.....	1	DB	O	25	A100-54801A-1	\$ 2.75
Jog.....	1	DB	O	25	A100-54801A-3	2.75
Reset.....	1	DB	O	25	A100-54801A-4	2.75
Stop.....	1	DB	C	26	A105-54801A-2	2.75
Start-Stop.....	2	EE	....	27	1A3	2.75
Start-Stop (with Lock Clip on Stop).....	2	EE	....	27	1A3L	4.15
Forward-Reverse-Stop	3	DB	FRS	1-1-26	A100 54800A-1	8.25
Open-Close-Stop.....	3	DB	FRS	1-1-26	A100-54800A-2	8.25
Up-Down-Stop.....	3	DB	FRS	1-1-26	A100-54800A-3	8.25
Fast-Slow-Stop.....	3	DB	FRS	1-1-26	A100-54800A-4	8.25
Start-Stop-Reverse....	3	DB	FRS	1-26-1	A100-54800A-5	8.25
125 Volt } On-Off.....	3	DB	PL	11-25-26	A100-54800A-6	11.00
Red Lamp } Start-Stop.	3	DB	PL	11-25-26	A100-54800A-7	11.00
125 Volt } Start-Stop.	3	DB	PL	11-25-26	A100-54800A-10	11.00
Red Lamp } Start-Stop.	3	DB	PL	11-25-26	A100-54800A-10	11.00
250 Volt } Start-Stop.	3	DB	PL	11-25-26	A100-54800A-10	11.00
Red Lamp } Start-Stop.	3	DB	PL	11-25-26	A100-54800A-10	11.00

CONTACT
SYMBOLS

PAI R2885

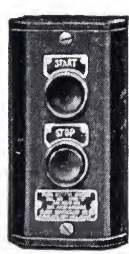
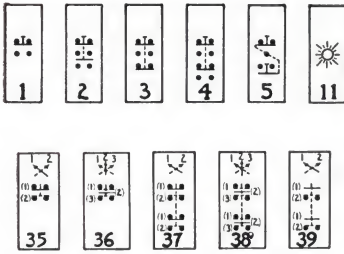


ORDERING INSTRUCTIONS

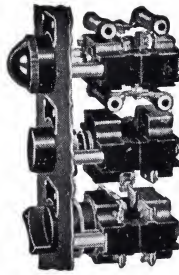
ORDER AS FOLLOWS: (Quantity)—Code No. () Type ()
Form () push button stations.

CLARK PUSH BUTTONS
ASSEMBLED STATIONS—HEAVY DUTY—TYPE D

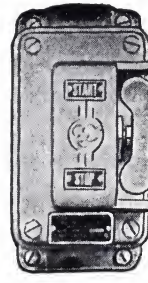
CONTACT SYMBOLS



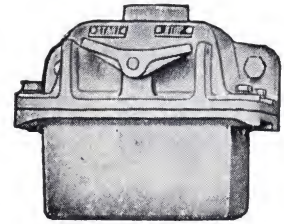
Surface Mounted



Flush Mounted



Dust and Water-Tight



Class 1 Group D Haz. Locations

DISCOUNT SCHEDULE MA

*LIST PRICES AND CATALOG CODE NUMBERS

NAME PLATE MARKING	DESCRIPTION AND SPECIAL FEATURES	Contact Symbol	SURFACE MOUNTED		FLUSH MOUNTED		DUST AND WATER-TIGHT		CLASS 1 GROUP D HAZ. LOCATIONS	
			CODE NUMBER	List Price	CODE NUMBER	List Price	CODE NUMBER	List Price	CODE NUMBER	List Price

1 ELEMENT STATIONS

PUSH BUTTONS

Start.....	Momentary Contact	1	A100-44086A	\$ 5.50	A100-60701A-1	\$ 5.50	A100-54001A-1	\$15.15	A100-55201A-1	\$12.40
Stop.....	Momentary Contact	1	A100-44110A	5.50	A100-60701A-2	5.50	A100-54001A-2	15.15	A100-55201A-2	12.40
Jog.....	Momentary Contact	1	A100-44114A	5.50	A100-60701A-3	5.50	A100-54001A-16	15.15		
Start.....	Momentary Contact	4	A100-44087A	7.20	A100-60701A-8	7.20	A100-54001A-27	16.85		
Stop.....	Momentary Contact	4	A100-44111A	7.20	A100-60701A-9	7.20				
Start.....	Mom. Cont. 2 1/4" Dia. Black Mushroom Hd.	1	A100-44103A	6.90						
Stop.....	Mom. Cont. 2 1/4" Dia. Red Mushroom Head	1	A100-44104A	6.90						

SELECTOR SWITCHES

Off-On.....	2 Position D.P.S.T.	39	A100-44092A	6.90	A100-60701A-11	6.90				
*Hand-Off-Auto.	3 Position S.P.D.T.	36	A100-44093A	6.90	A100-60701A-15	6.90				
Slow-Fast.....	2 Position S.P.D.T.	35	A100-44118A	6.90	A100-60701A-14	6.90				

INDICATING LIGHTS

Lamp Cir.-125 V.	Specify Color Cap	11	A100-49119A	8.25	A100-60701A-16	8.25	A100-54001A-4	17.90		
Lamp Cir.-250 V.	Specify Color Cap	11	A100-49120A	8.25	A100-60701A-17	8.25	A100-54001A-5	17.90		
Lamp Cir.-440 V.	Specify Color Cap	11	A100-49121A	12.40	A100-60701A-18	12.40	A100-54001A-6	22.00		
Lamp Cir.-550 V.	Specify Color Cap	11	A100-49122A	12.40	A100-60701A-19	12.40	A100-54001A-7	22.00		

2 ELEMENT STATIONS

PUSH BUTTONS

Start-Stop.....	Momentary Contact	(2) No. 1	A100-44112A	8.25	A100-60702A-1	8.25	A100-54002A-1	16.50	A100-55202A-1	15.15
Start-Stop.....	Maint'd Cont. Type	5	A100-44089A	9.65	A100-60702A-7	9.65	A100-54002A-6	17.90	A100-55202A-6	16.50
Fwd.-Reverse.....	Momentary Contact	(2) No. 1	A100-44088A	8.25	A100-60702A-3	8.25	A100-54002A-2	16.50	A100-55202A-2	15.15
Fast-Slow.....	Momentary Contact	(2) No. 1	A100-44120A	8.25	A100-60702A-6	8.25	A100-54002A-5	16.50		
Up-Down.....	Momentary Contact	(2) No. 1	A100-44122A	8.25	A100-60702A-4	8.25	A100-54002A-3	16.50		
On-Off.....	Momentary Contact	(2) No. 1	A100-44125A	8.25	A100-60702A-10	8.25	A100-54002A-13	16.50		
On-Off.....	Maint'd Cont. Type	5	A100-44123A	9.65	A100-60702A-8	9.65	A100-54002A-7	17.90	A100-55202A-7	16.50
Reset-Off.....	Momentary Contact	(2) No. 1	A100-49106A	7.50			A100-54002A-14	16.50		

NAME PLATE MARKING	DESCRIPTION AND SPECIAL FEATURES	Contact Symbol	SURFACE MOUNTED		PLUSH PLATE MOUNTED		DUST-TIGHT AND WATER-TIGHT	
			CODE NO.	List Price	CODE NO.	List Price	CODE NO.	List Price

3 ELEMENT STATIONS

PUSH BUTTONS

Fwd.-Reverse-Stop.....	Momentary Contact.....	(3) No. 1	A100-44090A	\$11.00	A100-60703A-1	\$11.00	A100-54003A-1	\$22.00
Fast-Slow-Stop.....	Momentary Contact.....	(3) No. 1	A100-49101A	11.00	A100-60703A-5	11.00	A100-54003A-4	22.00
Up-Down-Stop.....	Momentary Contact.....	(3) No. 1	A100-49103A	11.00	A100-60703A-3	11.00	A100-54003A-2	22.00
Fwd.-Reverse-Stop.....	(3) 4 Circuit Units.....	(3) No. 4	A100-49114A	16.15			A100-54003A-17	27.15
Start-Jog-Stop.....	Momentary Contact.....	(3) No. 1	A100-49105A	11.00	A100-60703A-12	11.00	A100-54003A-22	22.00
Start-Jog-Stop.....	Snaplatch on Jog.....	(3) No. 1	A100-58206A	12.40				
On.....								
Fwd.-Reverse-Stop.....	Momentary Contact — Hold	(3) No. 1	A100-44091A	12.40	A100-60703A-2	12.40		
Safe.....	Down and Lock on Stop.....							

PUSH BUTTONS WITH INDICATING LIGHTS

Light-Start-Stop.....	125 Volt Red.....	11-1-1	A100-58202A	13.75	A100-60703A-6	13.75	A100-54003A-5	26.15
Light-Start-Stop.....	250 Volt Red.....	11-1-1	A100-58203A	13.75	A100-60703A-7	13.75	A100-54003A-6	26.15
Light-Start-Stop.....	440 Volt Red.....	11-1-1	A100-58204A	17.90	A100-60703A-8	17.90	A100-54003A-7	36.00
Light-Start-Stop.....	550 Volt Red.....	11-1-1	A100-58205A	17.90	A100-60703A-9	17.90	A100-54003A-9	36.00

PUSH BUTTONS WITH SELECTOR SWITCH

Start-Stop (Jog, Run).....	2 Pole, Single Throw.....	(2) No. 1 & (1) No. 39	A100-58207A	12.40	A100-60703A-10	12.40		
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*600V. A.C. Heavy Duty, 600V. D.C. Standard Duty.

MINNEAPOLIS-HONEYWELL REGULATORS

SURFACE AQUASTAT*



Surface mounting limit controls with bi-metal sensing element and mercury switching means. No insertion element. Primary application is that of safety or high limit control (in conjunction with a room thermostat) on all types of hot water heating systems. The reverse acting LA409B is used as a low limit control on unit heater installations to prevent

fan operation when heater coils are at low temperature.

Convenient mounting bracket and pipe straps for rigid installation; may be mounted on vertical, horizontal or angled pipes. Control point adjustment by screwdriver slot through cover. Black Kristo Krak finish. Range: 100° to 200° F. Height 4 3/8 inches; width 3 inches; depth 2 1/8 inches. Centigrade scale markings equivalent to standard Fahrenheit range at \$1.30 list extra.

Type	Series	Circuit	Shpg. Wt. Lbs.	Price Each
LA409A	40	Opens	1	\$9.90
LA409B	40-10	Closes	1	9.90

*Trade Mark.

IMMERSION AQUASTAT*

Bi-metal actuated device, commonly used as high limit controls on hot water systems or as low limit controls in conjunction with summer-winter hot water installations. Mercury switch for circuit control. Features include visible scale, detachable well, internal wiring connections with ample spacing. Snap-on cover. Main scale adjustment screwdriver slot through cover. Differential adjustment internal.



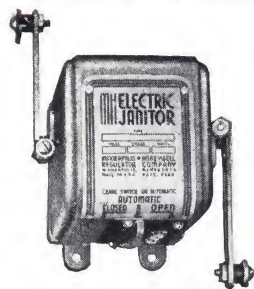
(Case) Height 4 3/8 inches; width 3 inches; depth 2 1/8 inches; distance from mounting surface 2 1/4 inches. Range: (L444A) 80° to 240° F.

Price, Type L444A Immersion

Aquastateach \$11.20

*Trade Mark.

TYPE M220 ELECTRIC JANITOR MOTOR



Designed for use in operating draft and check dampers on a furnace or boiler which is under thermostat control. It is a two position type induction motor with a Series 20 control circuit. Equipped with a built-in manual switch which provides for manual operation of draft damper when firing the furnace or boiler. Power consumption 10 watts.

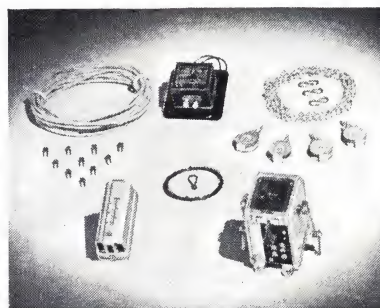
Voltage and frequency, 115 volts, 50 or 60 cycle, standard. For other A.C. voltages and frequencies, add \$2.60 list extra. Power type plate or foot mounted transformer furnished. Zinc casting, natural finish. Height 4 1/2 inches; width (less motor arms) 3 3/8 inches; depth 4 1/4 inches.

Price, Type M220A Damper Motor.....each \$18.00

MINNEAPOLIS-HONEYWELL DAMPER REGULATOR SETS

ELECTRIC JANITORS

Control Systems Y100A, Y18A



These are inexpensive all electric control sets to position the dampers on domestic coal fired heating plants. They provide exceptionally accurate temperature control. The Standard Electric Janitor (illustrated) includes the T21 Heat Leveling Acratherm and the M220A Motor with basement switch. The Da-Nite Electric Janitor includes the T209 Da-Nite Acratherm. The Da-Nite Acratherm offers the advantages of lowered night temperatures with automatic return to the day time level. Tests have proved that lowered night temperatures effect definite fuel economy. All sets are supplied complete with fittings.

Type	Description	Wt. Lbs. Each	Price Each
Y100A	(T21A Acratherm, M220A Motor)	7 1/2	\$29.40
Y18A	(T209A Da-Nite Acratherm, M220A Motor).....	8 1/2	41.50

SPRING RETURN ELECTRIC JANITORS

Y101A Heat Leveling Janitor

Y204A Chronotherm Electric Janitor

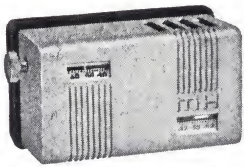


An important feature of this package is that a powerful spring in the motor drives the damper to the checked position in case of power failure. This safety feature prevents overheating during current interruptions. The Y101A includes the T81 Heat Leveling Acratherm and the M87 Spring Return Motor which is equipped with a basement switch. The Y204A features the TM847A Chronotherm with the M87 Spring Return Motor. The necessary fittings are packed with each set.

Type	Description	Wt. Lbs. Each	Price Each
Y101A	(T81A Acratherm, M87A Motor)	7 3/4	\$34.30
Y204A	(TM847A Chronotherm, M87A Motor)	11 3/4	57.80

MINNEAPOLIS-HONEYWELL REGULATORS

TYPE TA42A THERMOSTAT



Type TA42A has been purposely designed for use where accurate and dependable control of line voltage, heavy duty devices are involved and is capable of handling directly large motor-driven units, industrial and commercial stoker fired heating plants, etc. On larger or polyphase motors it should be used in connection with magnetic starters. Where desired, it can be used in low-voltage circuits.

The horizontal design provides maximum air circulation and greatly reduces the effect of contact heat. The new M-H Con-Tac-Tor snap-switch provides the starting action. This is a non-magnetic switch, self-enclosed to protect it from dirt, dust, moisture and grime, and has been proved by exhaustive tests to be capable of years of dependable service. Another distinctive feature is the temperature setting knob which can be removed to lock the thermostat in order to prevent tampering. Models are also available with a "positive on" feature for cooling applications.

Type TA42A makes contact on temperature fall (Series 40). Range 42-75° F. and 56 to 84° F.

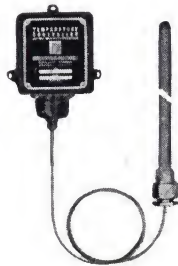
Finish: Silver bronze on grey sub-base. (Special finishes available at extra cost).

Dimensions: Height 2½ inches; depth 2⅞ inches; width 5 inches (including knob).

Price, Type TA42A Thermostat.....each **\$14.90**

TYPE T415 TEMPERATURE CONTROLLER

Temperature controllers are commonly used to control temperatures in ducts, tanks, boilers, etc. Pressure changes in the vapor filled capsule are transmitted through a flexible element to a bellows in the instrument, which in turn operates a mercury switch.



Capsule Fill: "Cross ambient" for ranges up to and including 65-140° F. "High temperature" fill for higher ranges.

Element: 5-ft. tubing standard, including capsule; 10-ft. at extra cost. Element Material: Copper capsule and tubing standard for all ranges.

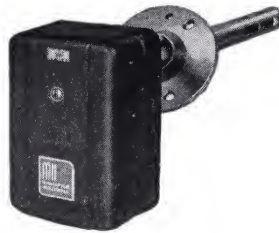
Ranges: 0-70° F., 15-90° F., 60-100° F., 65-140° F., 75-200° F., 80-210° F., 105-200° F. Other ranges available, prices on request.

Extra charges for ranges or element lengths, other than specified above, will be supplied on request. Pressure fitting included with each controller.

Price, Type T415A Temperature Controller in above ranges, with 5-ft. elementeach **\$23.00**

MINNEAPOLIS-HONEYWELL REGULATORS

FURNACESTAT*—Mercury Switch Type



*Trade Mark

This device is a furnace fan controller which prevents circulation of cold air by permitting fan operation only when the air temperature in the bonnet is within scale settings. A simple manual adjustment provides fan operation (for cooling) during summer.

Bi-metal actuated type with mercury switch for control of the fan circuit. Swivel bracket mounting. Scale setting visible, adjustable by external screw. Differential setting by internal lever. Internal wiring connections. Black Kristo Krak finish. Dimensions: (Case) Height 4¾ inches; width 3 inches; depth 2½ inches. Special insertion lengths to 18 inches maximum at **\$6.60** list extra.

Price, Type LA412A Furnacestat.....each **\$11.20**

M-H RELAYS

A complete line of simple and compactly designed relays is available for the requirements of various applications involving the control of line voltage loads from sensitive low voltage thermostats or controllers, or from line voltage controllers of limited capacity. Each is a complete self-contained unit. Relays equipped with Series 10 or Series 30 control circuits include a built-in transformer and are furnished for standard 115 or 230 volts, 50 or 60 cycle current. Relays for other commercial voltages or frequencies can be furnished at extra charge.



R132A

Type No.	Control Circuit Series	No. Poles	Rating in Amperes				Price Each
			115V. A.C.		230V. A.C.		
			Running Current	Locked Rotor	Running Current	Locked Rotor	
R15A*	40	1	4.5	45	2.3	23.0	\$15.90
R19A	10	1	10.2	61.2	5.1	30.6	10.60
R132A	10	2	7.4	44.4	3.7	22.2	13.60

*D.C. only.

UNIVERSAL RELAYS

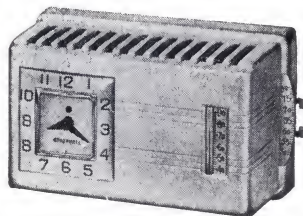
Furnished in 230 volts, 50 or 60 cycle rating at no extra cost (R182 only). For other A.C. voltages and frequencies, add **\$5.30** list extra.

			Rating in Amperes*				
			115V.		230V.		
			50-60 Cy.		50-60 Cy.		
Type	Switch	Control	Run- ing	Locked	Run- ing	Locked	Price
No.	Action	Circuit Series	Cur- rent	Rotor	rent	Rotor	Each
R182A	SPST	10, 20 or 80	10.2	61.2	5.1	30.6	\$13.40
R182B	SPDT	10, 20 or 80	7.4	44.4	3.7	22.2	16.00
R182C	DPDT	10, 20 or 20	7.4	44.4	3.7	22.2	17.50
R482A	SPST	40	13.0	78.0	6.5	39.0	9.90
R482B	SPDT	40	13.0	78.0	6.5	39.0	11.10
R482C	DPDT	40	13.0	78.0	6.5	39.0	12.60
R882A	SPST	80†	13.0	78.0	6.5	39.0	11.10
R882B	SPDT	80†	13.0	78.0	6.5	39.0	12.40
R882C	DPDT	80†	13.0	78.0	6.5	39.0	12.90

†Low Voltage; transformer not included.

MINNEAPOLIS-HONEYWELL REGULATORS

CHRONOTHERM*—ROOM THERMOSTATS



These Chronotherms are the latest in automatic thermostats. Day and night control points and clock settings can be made externally with internal temperature-lock settings. "Setback" and "pickup" time settings

are adjustable in any fractions of an hour, with a minimum of 6 hours setback. The slow rise cam allows a gradual increase in setting at morning pickup time which helps in reducing the "over-shooting" tendency of some heating plants.

Available in Series 20 (TA247A), and Universal Series 10-80 (TM848A and TM850A). Range 50° to 80° F.

The TM848A Plug-in type is specifically designed for convenient replacement having a "plug-in" transformer, a universal heater element and snap-action three-wire switching contacts.

Silver bronze finish. Special finishes available at extra cost. Submit sample. Dimensions—Overall: height, 2½ inches; width, 5 inches; depth, 2½ inches.

Type	Series	Switch	Action on Temperature Fall	Price Each
TA247A	20	S.P.D.T.	Opens circuit	\$34.90
TM848A	10-80	3W Snap	Closes circuit	34.90
TM850A	10-80	3W Snap	Closes circuit	34.90

MANUAL THERMOSTATS

A bimetal actuated low voltage open contact thermostat for controlling relays, Protectorelays, gas valves, motors, etc. Available in Series 10 (Heat Anticipation), Series 20 (Heat Leveling), or Series 80 (Heat Leveling, snap action) for heating applications. Temperature setting by external dial at top. Silver bronze finish.

Range—55° to 85° F. (Equivalent range of 13° to 30° C. available at no extra cost.) Other ranges available. 35° to 65° F. or 45° to 75° F. at no extra cost on TM11A.



Type	Description	Wt. Lbs. Each	Price Each
TM11A	Heat Anticipation (Series 10)	½	\$11.40
T21A	Heat Leveling (Series 20)	½	11.40
TM81C	Snap Acting (Series 80)	½	11.40

DA-NITE ACRATHERM*



Incorporates all the features of the standard Acratherm plus these advantages: (1) An extra night dial, (2) a simple external knob for manual shutdown to any desired night setting, and (3) automatic morning pickup to day temperature level. Range—Day 55° to 85° F. Night 45° to 75° F. Differential, adjustable. Rating, low voltage A.C. only. Dimensions, height 5¼ inches, width 2¼ inches, depth 2½ inches.

Locking device for day and night dials add \$2.60 list extra. Centigrade range at no extra cost.

Type	Description	Wt. Lbs. Each	Price Each
T109A	Heat Accelerated (Series 10)	1¼	\$23.50
T209A	Heat Leveling (Series 20)	1¼	23.50

*Trade Mark.

MINNEAPOLIS-HONEYWELL REGULATORS

LIGHT DUTY LINE VOLTAGE THERMOSTAT



Magnetic snap-acting, bi-metal actuated room thermostats, suitable for either line or low voltage applications. Types available for either heating or cooling systems. May be used for direct control of small motors, unit heaters, coal blowers, etc. Temperature setting by external lever in bottom. Silver bronze finish. Height 5 inches; width 2 inches; depth 1¼ inches. Range: T44A—44° to 76° F. or 54° to 86° F. Special range (T44A) 34° to 66° F. and 64° to 96° F. (or Centigrade equivalent) at \$5.30.

Special Features: (T44A only) Night shut-off at no extra cost. (T44A only) Centigrade scale equivalent to standard Fahrenheit range at no extra cost. Locking device (cover lock screw) at no extra cost. Blank Cover (less thermometer) at no extra cost.

Price, Type T44A Thermostat.....each \$12.20

TYPE T491B AIRSWITCH

Mercury Switch Type

The Airswitch is a heavy duty room type thermostat for controlling either cooling or heating equipment, such as unit heaters, refrigeration compressors or solenoid valves. It is widely used in greenhouse, garages, warehouses, cooler rooms, florist cabinets and similar applications. The non-corrosive bi-metal actuating element and mercury switch contacts make the Airswitch suitable for use under extreme conditions of temperature and humidity. A locking screw beneath the cover is provided to prevent tampering with the setting indicator.



Type T491B Airswitch (for heating) makes contact on temperature fall (Series 40). Aluminum bronze finish. Special finish at extra cost. Supplied in ranges 15-95° F. standard. Special ranges at extra cost, 40-120° F. and 60-140° F.

Dimensions: Height 5¼ inches; width 4 inches; depth 3 inches.

Price, Type T491B Airswitch.....each \$14.00

HEAVY DUTY LINE VOLTAGE THERMOSTAT

Mercury Switch Type



Heavy duty line or low voltage thermostats for control of heating or cooling systems. Capable of handling directly large motor driven unit heaters, coal blowers, cooling systems, etc. Provided with a bellows and a bellows actuated mercury switch. On large or polyphase motors, may be used in connection with magnetic starters.

Adjustment by external knob at side of case. Silver bronze finish. Height 5½ inches; width 3¾ inches; depth 2¼ inches. Range: 40° to 80° F. or 60° to 100° F.

Price, Type T42A Thermostat.....each \$15.90

MINNEAPOLIS-HONEYWELL REGULATORS

TYPE S403 TIME-O-SWITCH (Attic Fan Timer)



The Type S403A is a line voltage timing device which was designed primarily to control the operation of attic fans, store lights, or other electrical equipment where the current supply is to be turned off after some predetermined interval of time has elapsed.

The timer may be set to close the circuit for any period of time from one half to eleven hours, merely by twisting the knob on the front of the timer until the desired time interval appears on the dial. A twist of the knob in the opposite direction will turn off the current supply at any time, should this become necessary.

Provision is also made to permit turning "on" the switch indefinitely. Merely depress the small lever on the side of the case and the switch will be placed in the "on" position until it is manually turned "off."

The important features of this device include the well known Con-Tac-Tor mercury switch and facility for mounting so that either concealed or exposed wiring may be used. This latter feature makes the timer easily adaptable for use on old or new installations.

The Time-O-Switch can be located at any point that is convenient for wiring, operation, etc. In general, locating the instrument about 5 feet above the floor will prove more satisfactory. The Controller must always be mounted in a vertical upright position with the top of the case horizontal.

Specifications

Type—

S403A Time-O-Switch—(line voltage timer) "closes" the circuit for an adjustable period of time (from ½ to 11 hours), manual "on" lever.

Electrical Rating—10 amps. at 110 volts, 5 amps. at 220 volts, 1 H.P. A.C., ¼ H.P. D.C. (110 or 220 volts) .

Rating In Amperes

	115 Volts		230 Volts	
	Running Current	Locked Rotor	Running Current	Locked Rotor
A.C.	7.4	44.4	5.1	30.6
D.C.	2.4	24.0	1.2	12.0

Finish—Silver-bronze.

Timing Limits—½ hour to 11 hours.

Dimensions—Height 5½ inches, width 3¼ inches, Depth 2⅞ inches.

Mounting Means—Standard switch box, or wall mounting. Knockout for Xtensionduct (wire mould).

When Ordering Specify—

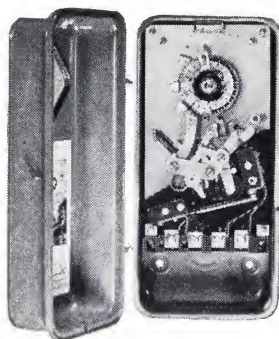
1. Type Number.

Type	Description	*Shpg. Wt. Lbs.	Price Each
S403A	Time-o-Switch	3	\$11.80

*Single unit weight shown. Quantity shipment weights will be proportionately lower.

SANGAMO TIME SWITCHES

2-CIRCUIT TYPES LY AND WY (Supersedes KAY and VSWY)



Type LY

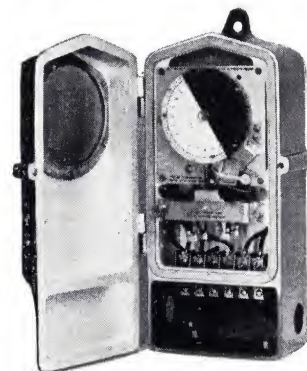
The synchronous Type L and carry-over Type W in two circuit construction. The "on" and "off" operations of each circuit are independent, (except when Omitting Device or Astronomic Dial is required). Equipped with 2 pairs of tripping levers.

Type	Description	A.C. Amp. Per Circuit	List Price*
LY-11	Two Circuit	35	\$32.50
WY-11	Two Circuit	35	\$52.50
LYZ or WYZ, Standard Astronomic Dial, add			
LYH or WYH, "On" Omitting Device, add			
LYF or WYF, "Off" Omitting Device, add			
LYO or WYO, Weatherproof-Windowless Case, add			
LYR or WYR, Extra Setting Levers, per pair			
LYG or WYG, Reverse Time Limits, No extra charge.			

*Standard Motors: Specify 120 or 240 volt, 60 cycle.

TYPE TC ELECTRICALLY-WOUND A.C. or D.C.

Built for extreme precision. Electrically-wound movement with full eleven-jeweled escapement. Main-spring reserve operates switch during current interruptions up to twenty hours. Particularly advantageous when controlled frequency is not available. ON and OFF operations can be set as close together as 15 minutes.



Type TC

Alternating Current

Form	Poles	Throw	A.C.—120 V.		A.C.—240 V.	
			Amp.	List	Amp.	List
TC-11	Single	Single	30	\$92.00	30	\$92.00
TC-12	Single	Double	30	94.00	30	94.00
TC-21	Double	Single	30	96.00	30	96.00
TC-22	Double	Double	30	100.00	30	100.00
TC-31	Triple	Single	10	98.00	10	98.00
TC-32	Triple	Double	10	116.00	10	116.00

Direct Current

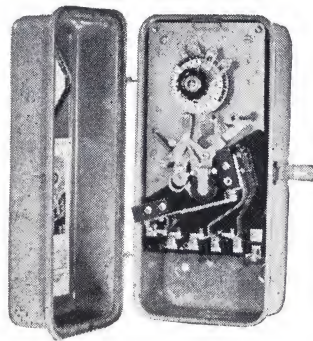
Form	Poles	Throw	D.C.—120 V.		D.C.—240 V.	
			Amp.	List	Amp.	List
TC-11	Single	Single	30	\$100.00	15	\$100.00
TC-12	Single	Double	30	102.00	15	102.00
TC-21	Double	Single	30	104.00	15	104.00
TC-22	Double	Double	30	108.00	15	108.00
TC-31	Triple	Single	10	106.00	5	106.00
TC-32	Triple	Double	10	124.00	5	124.00

Specify voltage and frequency. 6¼" wide, 13½" high, 4½" deep. Shipping weight, 20 pounds.

Type TCZ, Standard Astronomic Dial, add \$11.00. Type TCH, "ON" Omitting Device, add \$6.00. Type TCHE, Advance Time Device, add \$12.00. Type TCO, Weatherproof-Windowless Case, add \$15.00. Special Motor Voltages, other than listed, add \$5.00. Momentary Contacts (TC-12 only) ½ to 2 Seconds, add \$8.00. Momentary Contacts (TC-12 only) 4 to 5 or 8 to 10 Seconds, add \$14.00.

SANGAMO TIME SWITCHES

TYPE L—SYNCHRONOUS



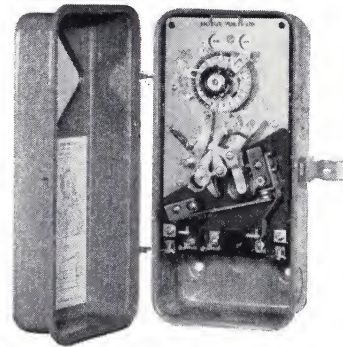
Type L
(Supersedes KA)

Sangamo Hysteresis, high-torque self-starting motor, slow speed 450 r.p.m. unaffected by extreme temperatures.

Pure silver contacts, conservatively rated 35 amperes on Types 11, 12, 21. Two pairs of setting levers, 90 minutes between "off" and "on," 30 minutes between "on" and "off." Reversible time limits if ordered. Gasket sealed, rain proof case.

Dimensions: 10¼ inches high, 5¼ inches wide, 4 inches deep overall. Shipping weight, approximately 7 lbs.

TYPE W—SYNCHRONOUS CARRYOVER



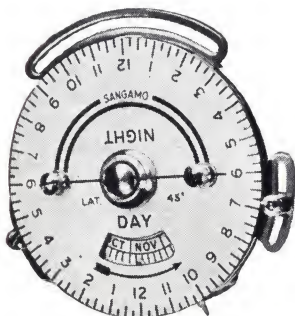
Type W
(Supersedes VSW)

Type W, by combining synchronous timing with reserve spring clock operation, provides accurate timing during power shortages up to 10 hours and eliminates necessity of resetting of dial.

A new positive action thermal-blocking device releases the reserve timing movement during service interruptions. When power is restored, the synchronous motor resumes the timing operation and re-winds the spring of the clock movement. In all other respects, the specifications of Type L apply.

Type	Poles	Throw	AC Amperes Circuit	List Price	Type	Poles	Throw	AC Amperes Circuit	List Price
L-11	Single	Single	35	\$24.50	W-11	Single	Single	35	\$43.50
L-21	Double	Single	35	27.00	W-21	Double	Single	35	46.00
L-31	Triple	Single	6	30.50	W-31	Triple	Single	6	49.50
L-12	Single	Double	35	27.00	W-12	Single	Double	35	46.00
L-22	Double	Double	6	29.50	W-22	Double	Double	6	48.50
L-32	Triple	Double	6	32.50	W-32	Triple	Double	6	51.50
LZ,	Standard Astronomic Dial, add.....			\$11.00	WZ,	Standard Astronomic Dial, add.....			\$11.00
LH,	"On" Omitting Device, add.....			2.00	WH,	"On" Omitting Device, add.....			2.00
LF,	"Off" Omitting Device, add.....			2.00	WF,	"Off" Omitting Device, add.....			2.00
LHE,	Advance Time Cutoff, add.....			7.00	WHE,	Advance Time Cutoff, add.....			7.00
LO,	Weatherproof-windowless Case, add			20.00	WO,	Weatherproof-windowless Case, add			20.00
LR,	Extra Setting Levers, per pair.....			.50	WR,	Extra Setting Levers, per pair.....			.50
LG,	Reverse Time Limits, no extra charge.				WG,	Reverse Time Limits, no extra charge.			

Standard Motors: Specify 120 or 240 volts, 60 cycle. Special motors: 25 or 50 cycle, add \$1.00; 24 volt, add \$1.00; 480 volt (60 cycle) add \$6.00.



ASTRONOMIC DIAL

When a Sangamo Time Switch is fitted with an Astronomic Dial it will automatically turn lights "on" at sunset and "off" at sunrise, compensating progressively day by day for the change in seasons. Or, this dial permits the "off" operation at any time between 9:30 p.m. and 2:15 a.m.

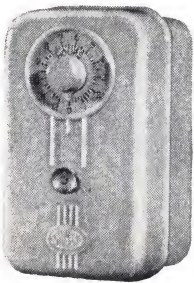
Ideal control for: outdoor advertising, street-, flood-, air beacon-, light house-, and yard-lighting.

Standard latitudes 30°, 35°, 40°, 42½° and 45° add \$11.00.

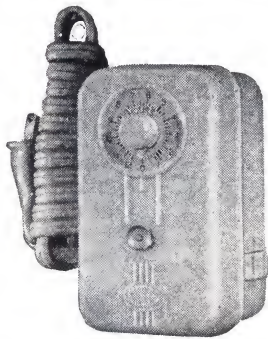
Special latitudes 20°, 27½°, 32½°, 37½°, 50° and 52° add \$15.00.

SANGAMO TIMERS

TYPES T AND TJ TIMERS—SYNCHRONOUS



Type T



Type TJ

Interval timer for control of attic fans, unit heaters, air conditioners and other appliances.

Sangamo synchronous, self-starting, slow speed 450 R.P.M. motor. Precision machined gears.

Types T-12H and TJ-12H timers provide an automatic OFF operation following a manually-set ON period of from 15 minutes to 12 hours. T-30M and TJ-30M have an ON period of from 1 to 30 minutes. Two mounting designs are available: Type T for switchbox or wall installation. TJ with plug-in cord and built-in receptacle for portable use. Both types to be operated in an upright position. Contacts are single pole single throw, normally open. T rated at 15 amperes AC; TJ rated at 10 amperes or 1/4 HP AC. Overall dimensions: height 5 5/8 inches, width 3 inches, depth 3 1/4 inches.

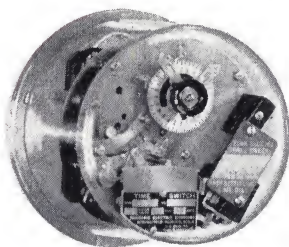
Type	Interval	AC Rating	Shpg. Wt. Lbs.	Price Each
T-12H	15 min. to 12 hrs.	15 amp.	2	\$12.45*
T-30M	1 min. to 30 min.	15 amp.	2	12.45*
TJ-12H	15 min. to 12 hrs.	10 amp. or 1/4 HP	2 1/4	14.45*
TJ-30M	1 min. to 30 min.	10 amp. or 1/4 HP	2 1/4	14.45*

*Standard Motors: 120 volt, 60 cycle. Special Motors: 24 or 240 volt, add \$1.00; 25 or 50 cycles, add \$1.00.
†120 volt, 60 cycle motor. 25 or 60 cycle, add \$1.00.

SANGAMO TIME SWITCHES

TYPE LS SYNCHRONOUS—TYPE WS SYNCHRONOUS CARRYOVER

Synchronous Socket Types



Type WS

The Type LS with self-starting synchronous motor is built for mounting on meter sockets the same as used for mounting socket type watt-hour meters. Its operation is identical as that of the Type L time-switch, except that the time dial can be set with a screw driver through a sealable opening in the cover.

The Type WS combines the precision of synchronous motor timing with the carry-over feature of the Type W time-switch. Type WS provides two openings in the glass cover, the upper for setting of the time, the lower for actuating the balance lever.

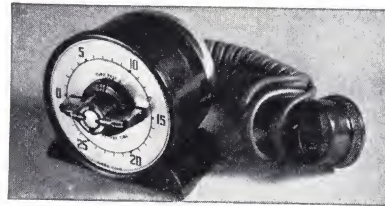
Type	Poles	Throw	AC Amp. Circuit	List* Price
LS-11	Single	Single	35	\$25.50
LS-21	Double	Single	35	28.00
LS-12	Single	Double	35	28.00
WS-11	Single	Single	35	44.50
WS-21	Double	Single	35	47.00
WS-12	Single	Double	35	47.00

*Standard Motors: Specify 120 or 240 volt, 60 cycle.
All special features of the Types L and W can be applied to the Types LS and WS Switches.

MARK-TIME SWITCHES

MARK-TIME PORTABLE SWITCHES

Controls the time operations of any electrical appliance, device or circuit. Black bakelite case. Brushed chromium dial. Equipped with 6 feet rubber extension cord and series tap plug. Single-pole, single-throw. Current rating — 10 amp., 125 volts; 5 amp., 250 volts; A.C. or D.C., any cycle.



Turns current "off" at any time up to maximum time interval of switch. Used for heating pads, washing machines, electrical kitchen appliances, air conditioners, fans, room heaters, beauty shop machines, industrial machinery.

No. 5501	15 minute "off" switch.....	\$6.55
No. 5502	30 minute "off" switch.....	6.55
No. 5503	60 minute "off" switch.....	6.55

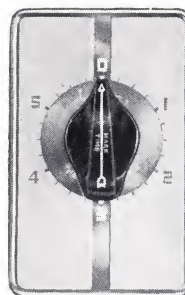
These switches can also be made up in 15 amperes at \$1.65 additional.

No. 4505 5-HOUR "ON" OR "OFF" SWITCH

Turns current "on" or "off" at any time up to a maximum of five hours. 10 amperes. Used for radio sets, ventilating fans, neon signs, electric roasters, refrigerators, oil burners, battery chargers, garage heaters, poultry and dairy applications, and all uses listed under No. 5502.

No. 4505	5-hour "on" and "off" switch.....	\$11.95
No. 4505B	Same as above except 15 amperes	13.60

9000 SERIES WALL SWITCH



Wall type unit which may be used to provide delayed action for porch or garage lights where it is desired to provide illumination for any predetermined time interval. Mechanically operated, wound and set simultaneously for time by merely turning the knob clockwise. Rugged and durable, this switch has full 20 amp. capacity and is rated for continuous duty. Ivory finish. Plate sets flush with wall in outlet box 2 1/2 inches or more deep.

No. 9000 Series Wall Switch in any timing up to 12 hours.....each \$6.55

A-9-S PHOTOGRAPHIC TIMER

An attractive unit mounted in black bakelite case timed for 60 minutes, and easily portable for service anywhere in the home. Excellent for timing cooking operations, phone calls, sun lamp treatments, etc. Sounds lingering chime note at end of set time. Adjustable stop permits resetting by sense of touch.



Price, No. A-9-S-4 (60 sec.).....each \$4.45

MARK-TIME SWITCHES

COIN METER No. 3200 SERIES



Used by apartment houses for laundry equipment—washers and ironing machines. Also for sun lamps, "Gym" devices, night tennis courts, amusement park devices, for current in tourist camps. Takes dimes for 20 minutes and quarters for an hour. Other timings available.

Also obtainable for AC operated only, at reduced price.

No. 3275 AC-DC Coin Meter\$19.60

MARK-TIMERS

Bell gives one lively musical chime at any time selected. An ideal time reminder and memory jogger for kitchens and other household uses; business and professional offices; hospitals, schools, etc. Non-electric. Every place a clock is used, a Mark-Timer is needed to tell when "time's up."



No. 56 Black — 1 hour\$4.15
 No. 57 Black — ½ hour4.15
 No. 58 Black — 15 minutes4.15
 No. 59 Black — 5 minutes4.25
 No. 60 Black — 60 seconds4.95

4700 SERIES ELECTRIC TIME SWITCH



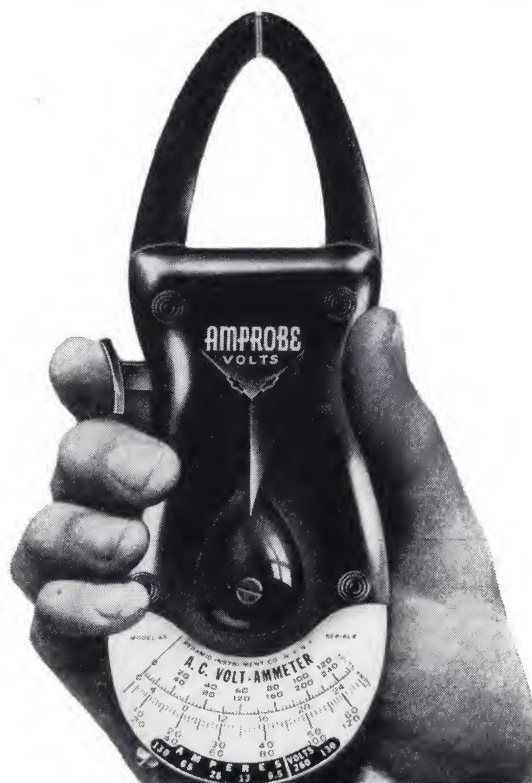
Center stud mounted "Off" type switch in corrosion resistant steel case. Set and wound simultaneously by a single twist of the knob. Especially designed for short timing cycles — maximum 24 minutes. Special variations in timing available upon request. Furnished without dial or knob.

Dimensions: Diameter 2½ inches, depth 1½ inch. Regularly supplied with 150-watt contacts. For A.C. operation only. This unit was particularly engineered to time short cycles accurately, and at the same time take up a minimum amount of space. Center stud mounting facilitates incorporation in such devices as sun lamps, heating pads, electrical kitchen appliances, beauty shop equipment, etc.

Price on request.

**YOUR REQUIREMENTS
 ALWAYS RECEIVE OUR
 PROMPT AND CAREFUL
 ATTENTION**

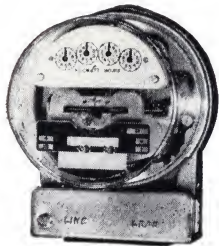
PYRAMID "AMPROBE" SPLIT-CORE VOLT-AMMETER—POCKET SIZE



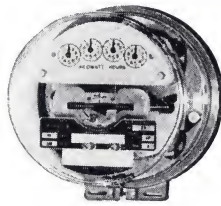
The "Amprobe" is the new pocket-sized split-core volt-ammeter for measuring currents and voltages without interrupting the circuit. With overall dimensions of 7½x2½x1½ inches and weighing only 14 oz., the Amprobe is less than half the usual size and weight of such instruments. May be carried in the pocket or worn on the belt. Specifically designed for engineers, electricians, manufacturers of electrical equipment, technicians, motor repair shops, maintenance men. One-hand operation. Seven-position switch, which can be flipped by the little finger of the hand holding the instrument, selects the meter scale. Five current and two voltage ranges. Finger trigger on the side of the case opens the transformer probe jaws, enabling them to clamp around the conductor and thus measure the current in that circuit. Jaws are specially shaped to get into tight spots. To measure voltage, a pair of accompanying test leads are plugged into the pin jacks on the front of the case and then connected to the line. Large, jeweled D'Arsonval movement and alnico magnet encased in a dust-and-moisture-proof compartment. Accuracy of ± 3% of full-scale reading, including any variation due to position of the conductor in the jaws. Completely insulated. No metal parts come in contact with the hand or circuit. May safely be used on bare conductors carrying as much as 1000 volts. Jaws will accommodate bus bars up to ½x1½ inches or cables as large as 1½ inches in diameter. Comes complete with voltage test leads and genuine top-grain cowhide, zippered case.

Model No.	Meter Scales Amperes	Volts
A-5	6.5/13/26/65/130	130/260
A-5-1	6.5/13/26/65/130	150/600
3-6	10/25/50/100/250	150/600

SANGAMO WATTHOUR METERS TYPES JA AND JS SINGLEPHASE METERS



Type JA



Type JS

Type JA and JS 2 Wire Meters

Single Element, Self Contained, for 2 Wire Singlephase Meters

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JA	Type JS
5	120	4	1	\$17.10	\$17.10
15	120	4	1	17.10	17.10
50	120	4†	1†	24.30	24.30
5	240	4	1	18.44	18.44
15	240	4	1	18.44	18.44
50	240	4†§	1†§	25.75	25.75

15 ampere, 240 volt, 3-2 wire, list \$18.90*.

Type JA and JS 2 Wire Meters

Single Element, for use with Instrument Transformers For 2 Wire or 3 Wire Singlephase Circuits

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JA	Type JS
2½	120	4†	1†	\$18.15	\$18.15
2½	240	4†	1†	19.50	19.50

5 ampere meters, when specified, at no extra charge.

Type JA and JS 3 Wire Meters

Single Element, Self Contained—For 3 Wire Singlephase Circuits

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JA	Type JS
5	240	4	1	\$18.44	\$18.44
15	240	4	1	18.44	18.44
50	240	4†§	1†§	25.75	25.75

15 ampere, 240 volt, 3-2 wire, list \$18.90*.

Types JA and JS 3 Wire Meters

Single Element, for use with Instrument Transformers For 3 Wire Singlephase Circuits

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JA	Type JS
2½	240	4†	1†	\$19.50	\$19.50

5 ampere meters, when specified, at no extra charge.

*A 15 ampere, 240 volt, 3 wire meter connected for 15 ampere, 120 volt, 2 wire service. Includes parts for reconvert-ing to 3 wire use.

†4 circle register with multiplier of 10, when specified, at no extra charge. §5 circle direct reading register, no extra charge.

‡Direct reading registers to include transformer ratios, when specified; 4 circle register, add \$2.00 list; 5 circle reg-ister, or special ratios, prices on request.

Cyclometer registers, when specified, add \$0.70 list.

480 to 600 volt meters, when specified, add \$5.00 list to 240 volt meters.

Type JH demand registers for 120 and 240 volt meters, when specified with meters:

Universal scales (EEI specifications).....	add \$32.30
Standard scales	add 34.80
Special scales	add 36.80

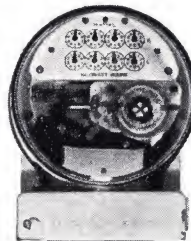
Type JGC cumulative demand registers for 120 and 240 volt meters, when specified with meters:

Universal scales (EEI specifications).....	add \$53.00
Standard scales	add 54.00

Types JH and JGC demand registers for 480 volt meters, add \$5.50 to above prices.

SANGAMO WATTHOUR METERS METER-TIME SWITCH COMBINATIONS

For 240 Volt, 3 Wire, Singlephase Circuits



Type JVA-2



Type JMS

Types JMA-11 and JMS-11 Meter-Time Switch Combination

3 Wire Singlephase—Single Pole, Single Throw

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JMA-11	Type JMS-11
15	240	4	1	\$43.25	\$43.25
50	240	4	1	52.50	52.50

Types JMA-21 and JMS-21 Meter-Time Switch Combination

3 Wire Singlephase—Double Pole, Single Throw

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JMA-21	Type JMS-21
15	240	4	1	\$44.80	\$44.80
50	240	4	1	54.05	54.05

Types JV-11-A-2 and JV-11-S-2 Meter-Time Switch Combination

3 Wire Singlephase—With 2 Rate Register Single Pole, Single Throw

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JV-11-A-2	Type JV-11-S-2
15	240	*	1	\$56.50	\$56.50
50	240	*	1	65.75	65.75

Types JV-21-A-2 and JV-21-S-2 Meter-Time Switch Combination

3 Wire Singlephase—With 2 Rate Register Double Pole, Single Throw

Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JV-21-A-2	Type JV-21-S-2
15	240	*	1	\$58.05	\$58.05
50	240	*	1	67.30	67.30

Types JVA-2 and JVS-2 Meter-Time Switch Combination

3 Wire Singlephase—With 2 Rate Register—No Contacts

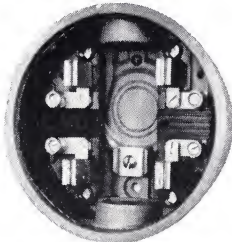
Amps.	Volts	Register		List Price	
		Dials	Multiplier	Type JVA-2	Type JVS-2
15	240	*	1	\$53.80	\$53.80
50	240	*	1	63.05	63.05

*Two rate register.

One "on" and one "off" daily operations stand-ard.

One additional set of "on" and "off" tripping levers, when specified, at no extra charge. For more than 1 additional set, prices on request.

SANGAMO ROUND SOCKETS COMPLETE WITH SEALING RINGS (Special Socket Discounts Apply)



4 Terminal Socket
with two threaded outlets

Die-cast round sockets are available with 4, 5 or 6 terminals, and can be furnished with or without circuit-closing devices. 4 and 5 terminal sockets are made for vertical or horizontal mounting and have either two or three threaded outlets; 6 terminal sockets are for vertical mounting only and have two threaded outlets. Breakouts are provided in the back of most styles; sizes are specified in the tabulated list.

DIE-CAST ROUND SOCKETS WITH 4 TERMINALS

Use these sockets with 2-wire and 3-wire Type JS singlephase self-contained meters and Types JMS and JV-S time switch-meter combinations, except for Types JV-11-S2 and JV-21-S2.

No. of Outlets Size of Pipe	Breakout in Back	Socket Depth	Without Circuit-Closing Device				With Circuit-Closing Device			
			Vertical		Horizontal		Vertical		Horizontal	
			Style No.	List Price	Style No.	List Price	Style No.	List Price	Style No.	List Price
Two 1-1/4"	None	Shallow	821561	\$3.00*	838841	\$3.00*	837687	\$3.65*	839165	\$3.65*
Two 3/4"	3/4"/1"	Shallow	930577	3.00*	930580	3.00*	930583	3.65*	930586	3.65*
Two 1"	3/4"/1"	Shallow	930578	3.00*	930581	3.00*	930584	3.65*	930587	3.65*
Two 1-1/4"	1"/1-1/4"	Deep	839461	3.05*	839470	3.05*	839479	3.70*	839488	3.70*
Three 3/4"	1"/1-1/4"	Deep	839453	3.85†	839462	3.85†	839471	4.50†	839480	4.50†
Three 1"	1"/1-1/4"	Deep	839454	3.85†	839463	3.85†	839472	4.50†	839481	4.50†
Two 1-1/4", One 1"	1"/1-1/4"	Deep	839455	3.85†	839464	3.85†	839473	4.50†	839482	4.50†
Three 1-1/4"	1"/1-1/4"	Deep	839458	3.85†	839467	3.85†	839476	4.50†	839485	4.50†

*Bus Line Terminals when specified (factory shipment only) 10c net extra per socket. †Bus Line Terminals standard.

DIE-CAST ROUND SOCKETS WITH 5 TERMINALS

Use with Type JS meters on singlephase transformer installations using either one 2-wire or one 3-wire transformer. Use with Type LC-2-S meters on 3-wire network, 3-wire 2 phase and 3-wire 3 phase installations.

No. of Outlets Size of Pipe	Breakout in Back	Socket Depth	Without Circuit-Closing Device				With Circuit-Closing Device			
			Vertical		Horizontal		Vertical		Horizontal	
			Style No.	List Price	Style No.	List Price	Style No.	List Price	Style No.	List Price
Two 1-1/4"	None	Shallow	934311	\$3.40*	934314	\$3.40*	934317	\$4.05*	934320	\$4.05*
Two 3/4"	3/4"/1"	Shallow	934321	3.40*	934324	3.40*	934327	4.05*	934330	4.05*
Two 1"	3/4"/1"	Shallow	934322	3.40*	934325	3.40*	934328	4.05*	934331	4.05*
Two 1-1/4"	1"/1-1/4"	Deep	934323	3.55*	934326	3.55*	934329	4.20*	934332	4.20*
Three 3/4"	1"/1-1/4"	Deep	934333	4.25†	934337	4.25†	934341	4.90†	934345	4.90†
Three 1"	1"/1-1/4"	Deep	934334	4.25†	934338	4.25†	934342	4.90†	934346	4.90†
Two 1-1/4", One 1"	1"/1-1/4"	Deep	934335	4.25†	934339	4.25†	934343	4.90†	934347	4.90†
Three 1-1/4"	1"/1-1/4"	Deep	934336	4.25†	934340	4.25†	934344	4.90†	934348	4.90†

*Bus Line Terminals when specified (factory shipment only) 10c net extra per socket. †Bus Line Terminals standard.

DIE-CAST ROUND SOCKETS WITH 6 TERMINALS

Use these sockets with Type JS meters on singlephase transformer installations using two 2-wire transformers, and Types JV-11-S-2 and JV-21-S-2 combination meters.

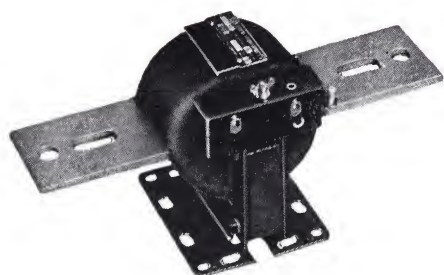
No. of Outlets Size of Pipe	Breakout in Back	Socket Depth	Without Circuit-Closing Device				With Circuit-Closing Device			
			Vertical		Horizontal		Vertical		Horizontal	
			Style No.	List Price	Style No.	List Price	Style No.	List Price	Style No.	List Price
Two 1-1/4"	None	Shallow	929470	\$3.80*	.....	.....	929473	\$4.45*	.....	.....
Two 3/4"	3/4"/1"	Shallow	929474	3.80*	.....	.....	929476	4.45*	.....	.....
Two 1"	3/4"/1"	Shallow	929475	3.80*	.....	.....	929477	4.45*	.....	.....
Two 1-1/4"	1"/1-1/4"	Deep	929478	3.95*	.....	.....	929479	4.60*	.....	.....

*Bus Line Terminals when specified (factory shipment only) 10c net extra per socket.

SANGAMO INSTRUMENT TRANSFORMERS

TYPE M-6 TRANSFORMERS

600 Volts: 200 to 600 Amperes



The Type M-6 current transformer is designed for indoor service on circuits not exceeding 600 volts.

Transformer is of the wound type and has a single primary and a single secondary. The base mounting dimensions conform to recommended standards as given in EEI specification MS2.

A.S.A. Metering Accuracy Classification: Class 0.3 for B-0.1, B-0.2 and B-0.5 burdens at 60 cycles. Also has Class 0.5 rating at Burden B-0.2 under EEI specification MS2.

Primary Amps.	Ratio	List Price
200	40:1	\$45.00
400	80:1	48.00
600	120:1	53.00

TYPE M-3 TRANSFORMERS

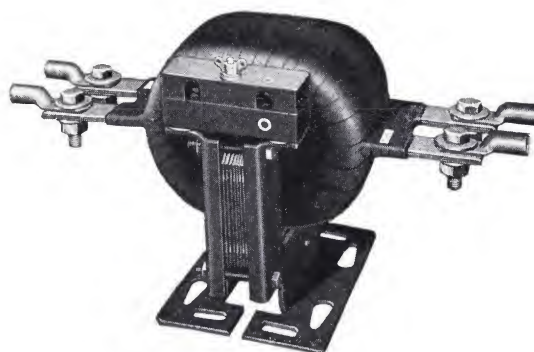
1200 Volts: 100 to 800 Amperes

The Type M-3 three-wire current transformer is designed for indoor service on three-wire singlephase circuits. Meets A.S.A. 1.2 KV insulation class test requirements — 10 KV at 60 cycles and 30 KV full wave impulse.

Transformer has a two coil wound primary for connection in a three-wire circuit. The secondary current is 5 amperes when full rated current flows in both primaries.

A.S.A. Metering Accuracy Classification: Class 0.3 for B-0.1, B-0.2 and B-0.5 burdens at 60 cycles.

Primary Amps.	Ratio	Bus Connection Width	Shpg. Wt. Lbs.	List Price
100	20/20:1	1	25	\$62.50
200	40/40:1	1 1/4	30	67.00
400	80/80:1	1 1/2	40	70.00
600	120/120:1	2 1/4	45	92.00
800	160/160:1	2 3/4	50	104.00



Type M-3 Transformer

TYPES MB-50 AND MB-87 CURRENT TRANSFORMERS

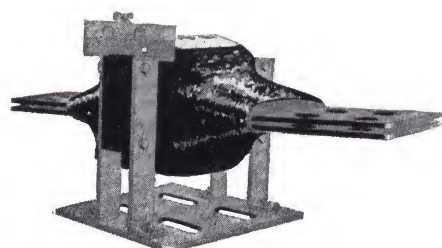
Bus-Primary Type

MB-50; 5000 Volts, 1200 to 4000 Amperes; Impulse Level, Full Wave, 60 KV.

New design provides insulation to meet the A.S.A. 5.0 KV insulation test requirements — 19 KV at 60 cycles and 60 KV full wave impulse.

MB-87; 8700 Volts, 1200 to 4000 Amperes; Impulse Level, Full Wave, 75 KV.

New design provides insulation to meet the A.S.A. 8.7 KV insulation test requirements — 26 KV at 60 cycles and 75 KV full wave impulse.



The A.S.A. metering accuracy classification of Types MB-50 and MB-87 transformers for 60 cycles:

Burdens	B-0.1	B-0.2	B-0.5	B-2
Accuracy Class:				
1200 to 200 Amperes.....	0.3	0.3	0.3	0.6
3000 to 4000 Amperes.....	0.3	0.3	0.3	0.3

MB-50 and MB-87—Single Primary, Single

Primary Amps.	Ratio	Secondary		List Price	
		No. Bus Bars	Width Bus Bar	MB-50	MB-87
1200	240:1	1	4	\$ 95.50	\$125.00
1500	300:1	1	4	103.00	130.00
2000	400:1	2	4	113.00	138.00
3000	600:1	3	4	130.00	155.00
4000	800:1	3	6	138.00	172.00

WAGNER DRY-TYPE TRANSFORMERS

TYPE AE

Single-Phase—60 Cycle—55° C. Cont. Duty
General Purpose



Dry-Type
Transformer

Wagner dry-type transformers through 10-kva type AE, are designed for either indoor or outdoor service. They can be installed anywhere in factories, offices, stores, and homes — in out-of-the-way places, or immediately at the point of use, adjacent to the appliance or machine requiring lower or higher voltage than that supplied by the power company. Compact and light in weight, the type AE transformer is easy to install, and easy to move when changes are necessary.

Note: Ratings larger than 10-kva are for indoor installation only.

60 Cycles

KVA.	List Price	Size of Conduit		Approx. Weight in Lbs. Ship
		H. V.	L. V.	
120x240 to 120/240 or 480 to 120/240 (No Taps)				
1	\$ 50.00	¾-1¼"	¾-1¼"	60
1.5	61.00	¾-1¼"	¾-1¼"	68
2	74.00	¾-1¼"	¾-1¼"	78
3	100.00	1-1½"	1-1½"	116
5	145.00	1-1½"	1-1½"	152
7.5	200.00	1-2"	1-2"	261
10	250.00	1-2"	1-2"	285
15	348.00	1¼"	2"	465
15	536.00	1½"	2"	585
37.5	685.00	2"	2½"	850
50	825.00	2"	2½"	900

480 to 120/240 (4-2 1/2% Taps Below 480 V.)

1	52.00	3/4-1 1/4"	3/4-1 1/4"	60
1.5	64.00	3/4-1 1/4"	3/4-1 1/4"	68
2	78.00	3/4-1 1/4"	3/4-1 1/4"	78
3	104.00	1-1 1/2"	1-1 1/2"	116
5	152.00	1-1 1/2"	1-1 1/2"	152
7.5	210.00	1-2"	1-2"	261
10	262.00	1-2"	1-2"	285
15	364.00	1 1/4"	2"	465
25	562.00	1 1/2"	2"	585
37.5	717.00	2"	2 1/2"	850
50	864.00	2"	2 1/2"	900

600 to 120/240 (4-2 1/2% Taps Below 600 V.)

1	56.00	3/4-1 1/4"	3/4-1 1/4"	60
1.5	69.00	3/4-1 1/4"	3/4-1 1/4"	68
2	83.00	3/4-1 1/4"	3/4-1 1/4"	78
3	112.00	1-1 1/2"	1-1 1/2"	116
5	163.00	1-1 1/2"	1-1 1/2"	152
7.5	225.00	1-2"	1-2"	261
10	281.00	1-2"	1-2"	285
15	390.00	1 1/4"	2"	465
25	602.00	1 1/2"	2"	585
37.5	769.00	2"	2 1/2"	850
50	926.00	2"	2 1/2"	900
75	1157.00	2 1/2"	3"	1400
100	1370.00	2 1/2"	3 1/2"	1650

All prices subject to change without notice.

WAGNER DISTRIBUTION TRANSFORMERS

TYPES HEX, HEB, HEK AND HEL

Single-Phase—Oil-Filled, Self-Cooled
60 Cycle—55° C. Continuous Duty



Wagner single-phase, oil-immersed, self-cooled distribution transformers in ratings 1 1/2 to 500 KVA, 66000 volts and below are available in the following types:

HEX: Equipped with high-voltage pocket bushings and low-voltage tank wall bushings (built in sizes 100 KVA and smaller, 5000 volts and below).

HEB: Equipped with tank wall high- and low-voltage bushings (built in sizes 200 KVA and smaller, 5000 volts

and below).

HEK: Equipped with high-voltage cover bushings and low-voltage tank wall bushings (built in sizes 200 KVA and smaller, 5001 to 66000 volts).

HEL: Equipped with cover-type high- and low-voltage bushings (built in sizes 250 to 500 KVA, 66000 volts and below).

KVA	List Price	TYPE	Approx. Net Weight (In lbs. incl. oil)		OIL (In gals.)
2400/4160Y					
(2-2½% Taps Above and Below) to 240/480 Volts or 600 Volts					
3 *	\$ 142.00	HEX or HEB	180		5¾
5 *	220.00	HEX or HEB	250		8
10 *	340.00	HEX or HEB	350		12½
15 *	434.00	HEX or HEB	495		14
25 *	600.00	HEX or HEB	725		20
37 ½ *	786.00	HEX or HEB	1015		32
50 *	962.00	HEX or HEB	1290		39
75 *	1284.00	HEX or HEB	1730		60
100 *	1600.00	HEX or HEB	1995		66
167 *	2426.00	HEK	3200		115
250 **	3426.00	HEK	4000		144
333 **	4126.00	HEK	5350		200
500 **	5400.00	HEK	7360		265

7200/12470V or 7620/13200V
(2-2 1/2% Taps Above and Below) to 240/480 Volts or 600 Volts

3*	170.00	HEK	190	7 3/4	
5*	266.00	HEK	240	9 3/4	
10*	424.00	HEK	430	18	
15*	544.00	HEK	630	25 1/2	
25*	742.00	HEK	860	40	
37 1/2*	972.00	HEK	1030	45	
50*	1178.00	HEK	1250	47	
75*	1562.00	HEK	1515	62	
100*	1864.00	HEK	1730	57	
167*	2582.00	HEK	4260	195	
250**	3530.00	HEK	4450	170	
333**	4190.00	HEK	5780	230	
500**	5436.00	HEK	7570	290	

12000 (4-2 1/2% Taps Above and Below) to 240/480 Volts or 600 Volts

3*	208.00	HEK	235	10 3/4	
5*	284.00	HEK	275	11 1/2	
10*	434.00	HEK	435	18	
15*	548.00	HEK	635	25 1/2	
25*	742.00	HEK	865	40	
37 1/2*	972.00	HEK	1030	45	
50*	1178.00	HEK	1260	47	
75*	1562.00	HEK	1530	62	
100*	1864.00	HEK	1750	57	
167*	2582.00	HEK	4280	195	
250**	3530.00	HEK	4470	170	
333**	4190.00	HEK	5800	230	
500**	5436.00	HEK	7590	290	

*Information also applies to 120/240 volt low-voltage with standard taps in high-voltage winding.

**Suitable for series-multiple only on 240/480 V. L. V.

All prices subject to change without notice.

MATTHEWS LIGHTNING GAPS

For Rural Distribution Lines

MATTHEWS PROTECTOGAP-PROTECTOLINK COMBINATIONS

Provide efficient, low cost protection against lightning surges and line failure on the primary side of rural distribution circuits. Gap is ahead of the Fuse Link which greatly reduces the number of fuse outages caused by lightning. Birds or animals cannot short out the device. Requires only one line connection and reduces the number and cost of pole attachments and items to handle.

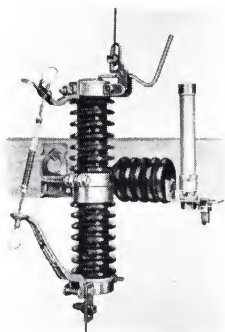
Protectogap—Interrupting capacity in Surge Amperes 8000 or less.

Protectogap—Interrupting capacity in 60 cycle follow amperes 1200 or less.

Cat. No.	Protectogap Rating †KV	Protectolink Rating Amperes	KV	Net Wt. Lbs.	*Price Each
1689-S	2.5; 5 & 8	50	5	9	\$10.48
1690-S	2.5; 5 & 8	50	7.5	10 1/4	12.75

†KV ratings are the operating voltages, line to ground for which they are recommended.

*Above prices apply to less than 25 assorted combinations. For larger quantities, prices on request.



MATTHEWS RINGAP

The Matthews Ringap was developed to provide double horn gap protection for low capacity, low revenue lines. It is as efficient as any double horn gap, the chief advantages being sturdy construction, unique design, and low initial cost. They should clear high impulse transients with no 60 cycle follow current about three times out of five.

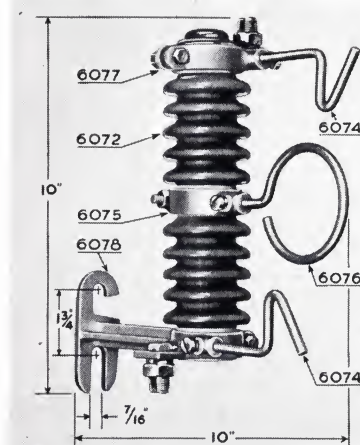
To maintain maximum air gap insulation under wet climatic conditions the gap arms are staggered. This prevents water drip between arcing points.

Because of the likelihood of burning the brass gap arms and rings, if not cleared fairly quickly by a circuit breaker, these Matthews Ringaps have been designed so all parts can be easily and inexpensively replaced. They are equipped with No. 4 Solderless Connectors (for No. 4 solid copper wire or smaller) for line and ground connections.

Interrupting capacity in surge amperes, with no follow current, 65,000.

Cat. No.	Volts	Description	Net Wt. Lbs.	*Price Each
6069	8,000 or Less	Ringap	3 3/8	\$3.58

*Less than 25. For quantities in excess of 25, prices on request.



No. 6069 Ringap

MATTHEWS TEEGAP

The Matthews Teegap has all the advantages of the Matthews Ringap, the only difference being the design of gap arms. They are made of commercially pure black iron containing not more than .013 per cent carbon content, so as to minimize burning at the arcing points. Can be furnished with bird protective screens at slight increase in price.

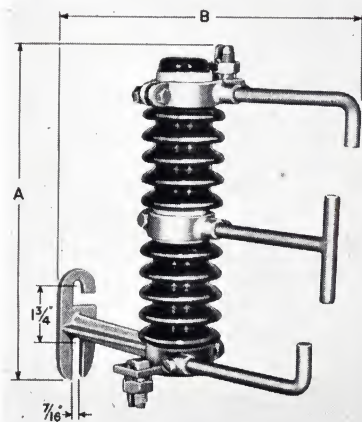
Will clear lightning transients with no 60 cycle follow current three times out of five, thereby reducing fuse outage costs. Adaptable for cross arm or pole mounting.

Interrupting capacity in surge amperes, with no follow current, 65,000.

Cat. No.	Volts	Net Wt. Lbs.	Dimens., Inches		*Price Each
			A	B	
6621	8,000 or Less	3 1/2	10	10 1/4	\$4.27
6621-S	8,000 or Less	3 3/8	10	10 1/4	4.54
7621	15,000 or Less	4 5/8	13	11 1/4	5.51
7621-S	15,000 or Less	4 3/4	13	11 1/4	5.79

Suffix letter "S" indicates Teegap with bird screens.

*Above prices apply to less than 25 assorted Teegaps. For larger quantities, prices on request.



No. 6621, 7621 Teegap

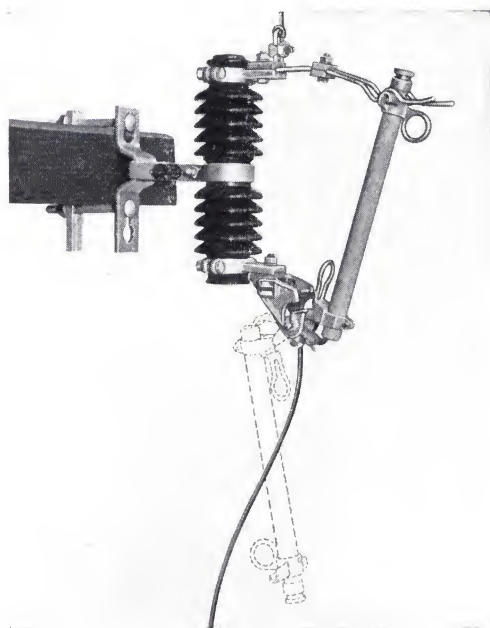
MATTHEWS FUSWITCHES

LOW TENSION DROPOUT—OPEN TYPE

Rated 5, 7.5 and 15 Kv.

100 Amp. or Less,

Interrupting Capacity 2000 Amps.



Where you have need for single insulator open type dropout cutouts for use on rural circuits, where the interrupting capacity is not likely to exceed 2000 amperes and the voltage will not exceed 15,000 these Low Tension Dropout Matthews Fuswitches are recommended.

They are substantial, no weak parts or parts which will cause trouble from corrosion. Nothing complicated about them.

Easily converted to 200 ampere Disconnecting Switches by replacing fuseholders with solid disconnect blades.

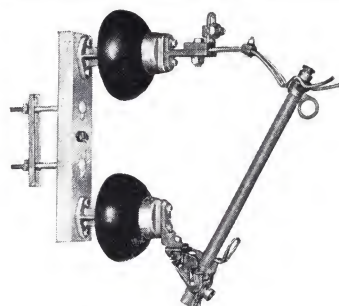
Cat. No.	Rating		Description	Net Wt. Lbs.	Price Each
	Amps.	KV			
1442-4	100	5	Fuswitch	10½	\$13.85
1452-4	100	7.5	Fuswitch	14¾	15.48
1458-4	100	15	Fuswitch	17½	19.23

Above prices apply to less than 25 assorted Fuswitches. For larger quantities, prices on request.

Voltage and current ratings and interrupting capacities conform to NEMA Distribution Cutout Standards.

MATTHEWS FUSWITCHES

LOW TENSION DROPOUT—OPEN TYPE

Rated 5, 7.5, 15 and 23 KV—100 Amps. or Less
Interrupting Capacity 2000 Amps.

These open type dropout cutouts, with two insulators, are applicable on urban or rural circuits where the interrupting capacity is not likely to exceed 2000 amperes and the voltage will not exceed 23,000. No weak parts or parts which cause trouble from corrosion. Fuseholders can be easily removed and installed with standard hot stick. Can be converted to 200 ampere Disconnecting Switches by replacing fuseholders with solid disconnect blades. Can also be furnished mounted on NEMA Standard Insulators.

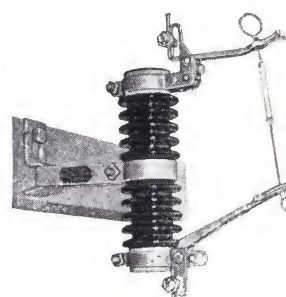
Cat. No.	Rating		Description	Net Wt. Lbs.	*Price Each
	Amps.	KV			
1342-4	100	5	Fuswitch	13¼	\$14.66
1352-4	100	7.5	Fuswitch	15	16.30
1358-4	100	15	Fuswitch	29	20.37
1368-4	100	23	Fuswitch	44½	27.71

*Above prices apply to less than 25 assorted Fuswitches. For larger quantities, prices on request.

Voltage and current ratings and interrupting capacities conform to NEMA Distribution Cutout Standards.

MATTHEWS PROTECTOLINK CUTOUTS

Rated 5, 7.5 and 15 KV—50 Amperes



Efficient protection at low cost is provided in these ruggedly constructed open link type cutouts. Fuse links are designed so they cannot be installed upside down and design of contact arms permits ease of fuse link installation. The spring tensioned lower arm automatically seats fuse link contacts into contact recesses in the arms, thereby assuring positive and radio noiseproof contacts.

Matthews Protectolink Cutouts and Fuse Links are interchangeably adaptable with all other makes.

Cat. No.	Rating		Description	Net Wt. Lbs.	*Price Each
	Amps.	KV			
1639	50	5	Cutout	6¼	\$7.33
1640	50	7.5	Cutout	6¾	8.97
1641	50	15	Cutout	7¾	11.41

Also available in two-shot reclosing types in 50 amp., 5 KV and 7.5 KV ratings.

*Above prices apply to less than 25 assorted Cutouts. For large quantities, prices on request.

MATTHEWS CUTOUTS

DROPDOWN INDICATING TYPE — PORCELAIN HOUSED



No. 12

They will indicate an outage even if the door is frozen shut. Fuseholder will drop down if a stiff 30 or 50-amp. link melts, and the exposed end of the Fuseholder or Fuse Link tail will always be dead. They put lowest tension on Fuse Links of any Housed Indicating Cutout. Even if a lineman leaves as much as $\frac{3}{4}$ -inch slack in the Fuse Links, the patented wedge and spring contacts will automatically remove this slack when the door is closed. No toggles or setting gadgets. Door remains closed when Fuse Link melts or blows, so that snow, ice or rain cannot damage inside of Cutout. A heat run test will prove that these Cutouts are the

coolest of all Housed Indicating Cutouts. All current carrying parts have over 85 per cent copper content.

Cat. No.	Rating		Description	Net Wt. Lbs.	Price Each
	Amps.	KV			
12	50	5	Cutout	8 $\frac{3}{4}$	\$9.20
23	50	7.5	Cutout	11 $\frac{1}{4}$	11.61

Above prices apply to less than 25 assorted Cutouts. For larger quantities, prices on request.

NON-INDICATING TYPE — PORCELAIN HOUSED

Simple, rugged, no moving parts. Heavy Everdur set screws. All current-carrying parts are over 85 per cent copper content. Time-seasoned Bakelite covered fibre fuseholder tubes which will not warp. High flash-over values. High interrupting capacity. Lowest time-cost. Over 300,000 in use.

Only the best cast porcelain is used for the housings.

No essential changes in design in over twelve years, but many refinements have been made.



No. 650

Cat. No.	Rating		Description	Net Wt. Lbs.	Price Each
	Amps.	KV			
650	50	5	Cutout	8 $\frac{3}{4}$	\$8.76
850	50	7.5	Cutout	11 $\frac{1}{4}$	11.08
950	100	5	Cutout	18 $\frac{3}{4}$	19.35
956	100	7.5	Cutout	19 $\frac{1}{2}$	23.22

Above prices apply to less than 25 assorted Cutouts. For larger quantities, prices on request.

Voltage and current ratings and interrupting capacities for all above cutouts, conform to NEMA Distribution Cutout Standards.

MATTHEWS FUSE LINKS



SERIES PT

FOR ALL PLUG TYPE CUTOUTS

The Series PT Matthews Fuse Links were designed to meet the demands of Power Companies for accurate, 100 per cent rated fuse links for use in low capacity Plug Type Cutouts.

All parts are assembled by crimping, (not soldering), for greater accuracy and strength. Flexible copper cable is lead coated for greater resistance to corrosion. Fusible elements covered by horn fibre tubes. Fork shape terminals permit ease of installation under contact terminal screws of plug cutouts.

Use them to prevent false outages; overloaded transformers; damaged cutouts and other equipment; and expensive and unnecessary service calls, instead of inaccurate "hit-or-miss" wire fuses now in plug type cutouts.

Packed in individual paper tubes, 25 to a telescoping container. Overall length, 8 $\frac{1}{4}$ inches.

Cat. No.	Ampere Rating	Price Each	
		Less than Std. Pkgs.	Std. Pkgs. 25 or More
PT1A	1-N	\$0.34	\$0.31
PT2A	2-N	.34	.31
PT3A	3-N	.34	.31
PT5A	5-N	.34	.31
PT8A	8-N	.34	.31
PT10A	10-N	.34	.31
PT15A	15-N	.34	.31
PT20A	20-N	.34	.31
PT25A	25-N	.34	.31
PT30A	30-N	.34	.31

MATTHEWS FUSE LINKS

SERIES 100-H UNIVERSAL FUSE LINKS



For companies now standardized on Series 100-H Universal Matthews Fuse Links, or for those who desire faster links than the new NEMA Standard Type E Links, these 100-H Fuse Links (which comply with NEMA Standards) are available.

They are assembled by crimping (not soldering), which assures greater strength and permits greater fuse co-ordination accuracy. Flexible copper cable is lead coated for greater resistance to corrosion. Fusible elements protected by horn fibre tubes.

Standard package 25, packed in 5 small cartons in master carton, each fuse link protected by paper tube. Overall length 20 inches.

Cat. No.	Ampere Rating	Less than Std. Pkgs.	25 or More
1A100H	1-N	\$0.46	\$0.42
2A100H	2-N	.46	.42
3A100H	3-N	.46	.42
5A100H	5-N	.46	.42
8A100H	8-N	.46	.42
10A100H	10-N	.46	.42
15A100H	15-N	.46	.42
20A100H	20-N	.46	.42
25A100H	25-N	.46	.42
30A100H	30-N	.46	.42
40A100H	40-N	.46	.42
45A100H	45-N	.46	.42
50A100H	50-N	.46	.42
75A100H	75-N	.56	.51
85A100H	85-N	.56	.51
95A100H	95-N	.56	.51
100A100H	100-N	.56	.51

MATTHEWS SECONDARY FUSES

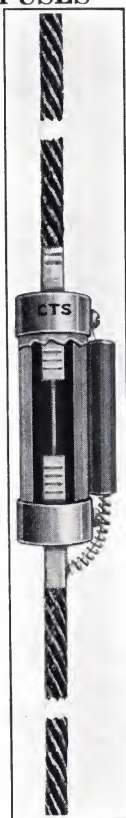
CTS CARTRIDGE TYPE SEMAPHORE

The CTS indicate blown fuses by means of the little bakelite semaphores which are released when the fuses melt. They are entirely sealed against rain and do not fall apart and hang down.

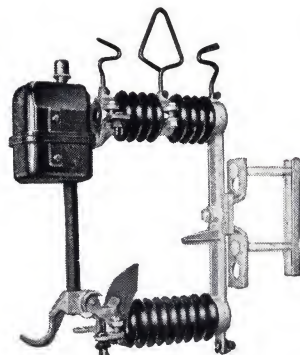
They have high strength, accurately crimped, copper-stainless steel fusing sections and lead coated flexible copper tails which are highly corrosion resistant.

The inner tubing is made of horn fibre. The outer of wrapped Bakelite. Overall length, 21 inches.

Cat. No.	Ampere Rating	Price Each	
		Less than Std. Pkgs.	Std. Pkgs. 25 or More
CTS5A	5	\$0.94	\$0.85
CTS8A	8	.94	.85
CTS10A	10	.94	.85
CTS15A	15	.94	.85
CTS20A	20	.94	.85
CTS25A	25	.94	.85
CTS30A	30	.94	.85
CTS40A	40	.94	.85
CTS50A	50	.94	.85
CTS60A	60	1.05	.95
CTS75A	75	1.05	.95
CTS100A	100	1.05	.95
CTS125A	125	2.09	1.90
CTS150A	150	2.09	1.90
CTS175A	175	2.09	1.90
CTS200A	200	2.09	1.90



MATTHEWS FUSELESS CUTOUTS



This thermally operated device eliminates the need for primary or secondary fuse links in cutouts or other types of transformer protection on rural lines. Designed for use on the typical single-phase multi-grounded neutral circuit, and is rated 7500 volts: 1.5, 3, 5, 7.5 and 10 kva. It can also be supplied on new transformers by most manufacturers.

When an abnormal current resulting from either a transformer failure or secondary line trouble occurs, the thermal tripping element operates in accordance with predetermined inverse time current characteristics. This releases the spring tensioned contact arm which instantly snaps to the ground contact on the base and the circuit is broken. However, in some instances the inductive reactance of the circuit may prevent the arc from being extinguished before the contact arm reaches the grounded contact. The resulting line to ground fault instantaneously builds up a short circuit current sufficiently great to operate a back up reclosing device. For this reason reclosing fuse cutouts or automatic reclosing circuit breakers must be installed on the line side of the same circuit where Matthews Fuseless Cutouts are installed.

Cat. No.	Description	Shpg. Wt. Lbs.	Price Each
1900	Fuseless Cutout, Pole or Crossarm Mounting	21	*\$22.20
1900-1.5	Thermal Element, 1.5 kva. ....		.70
1900-3	Thermal Element, 3 kva. ....		.70
1900-5	Thermal Element, 5 kva. ....		.70
1900-7.5	Thermal Element, 7.5 kva. ....		.90
1900-10	Thermal Element, 10 kva. ....		.90

*Price does not include Thermal Element and applies to less than 25 Fuseless Cutouts. For larger quantities, prices on request.

MATTHEWS LAMPLIGHTER

For Multiple Street Light Circuits

Assures positive on and off operation of multiple street lights at any setting of time switch or photo electric controls. Will control single lamps or any number of lamps up to their current ratings. Thermally operated, completely sealed against weather and very compact. Can be mounted on pole or crossarm and their maximum width of 2 1/4 inches will permit entrance in the bases of most metal or concrete street light standards.

Prices apply to less than 25. For larger quantities, prices on request.



Cat. No.	Ratings		Contacts	Price Each
	AC Single Phase-Amp.	Volts		
1500	15	120	Normally closed	\$9.75
1501	15	120	Normally open	9.75
1510	30	120	Normally closed	12.00
1511	30	120	Normally open	12.00

L-M KYLE AUTOMATIC OIL CIRCUIT RECLOSERS

TYPE "H" (SINGLE PHASE) RECLOSER



Type "H"

The L-M Kyle Type "H" Automatic Oil Circuit Recloser is a complete single phase unit—with operating sequences governed by the accurate performance of the hydraulic timing mechanism. Winter or Summer, the dependable operation of the Recloser remains accurate — regardless of ambient temperature changes, as proven by the many thousands in use today.

The activating force that controls the Recloser operation is developed in the magnetic field of the solenoid coil. Carrying full line current at all times, the magnetic field of the coil attempts to draw the plunger downward into the coil. This force is opposed by the contact operating springs which effectively prevent any downward motion of the plunger until the minimum tripping current (200% of rating) is reached. Thus, the magnetic force and the retarding springs are at equilibrium just below the minimum tripping current.

At the increase in current caused by overload or short circuit conditions, the plunger instantly moves downward into the coil. This forces the contact operating springs to separate the contacts thereby opening the circuit momentarily. In the event that the fault is temporary, as are 90% of the disturbances, the line will be cleared and the contacts reclosed automatically.

If the fault persists, the Recloser will open instantaneously a second time, on time-delay the third time and lock out after the fourth. Thereupon, the Recloser will have to be reset manually. This isolates permanent faults by restricting them to a limited section of the line thus protecting the remainder of the system.

In the event that the fault is cleared after the first, second or third opening, the Recloser will automatically reset itself for another full sequence of operations.

In no way are the operation functions hindered by preloading or freezing temperatures. Currents of any value below the minimum tripping current may be carried prior to the occurrence of a fault without slowing the speed of interruption. The only effect of preloading is the rise in temperature of the insulating oil. Similarly, below zero weather only lowers the temperature of the insulating oil in proportion with the system as a whole.

Catalog Numbers—Opening Sequence*						
(See below)						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
5	HA1C- 5A	HA1C- 5AB	HA1C- 5C	HA1C- 5AC	10	150
10	HA1C-10A	HA1C-10AB	HA1C-10C	HA1C-10AC	20	250
15	HA1C-15A	HA1C-15AB	HA1C-15C	HA1C-15AC	30	375
25	HA1C-25A	HA1C-25AB	HA1C-25C	HA1C-25AC	50	600
35	HA1C-35A	HA1C-35AB	HA1C-35C	HA1C-35AC	70	840
50	HA1C-50A	HA1C-50AB	HA1C-50C	HA1C-50AC	100	1200

Opening Sequence:*

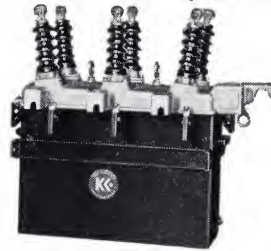
- (1)=Full Load Rating, Amperes.
- (2)=All Fast.
- (3)=2 Fast 2 Retarded.
- (4)=All Extra Retarded.
- (5)=2 Full and 2 Extra Retarded
- (6)=Minimum Tripping Current (Amperes).
- (7)=Interrupting Capacity (Amperes).

*Unless otherwise specified, opening sequence of 2 Fast and 2 Retarded openings will be furnished.

Ratings may be changed by replacing the series trip coil with coil of desired rating. Weight of Recloser—65 pounds.

L-M KYLE AUTOMATIC OIL CIRCUIT RECLOSERS

TYPE "3H" (THREE PHASE) RECLOSER



Type "3-H"

Since, in 3-phase operation, it is desirable to lock out all three phases when a permanent fault occurs in any one phase, each phase must therefore be individually protected. This is adequately accomplished by the Type "3H" Circuit Recloser.

The 3-phase recloser basically combines three complete Type "H" Reclosers mounted on a single head and suspended in the same tank. Each of the three units operates as a Single Phase Recloser independently of the others but all are linked together to coordinate the three phase lockout action. Thus, when one unit trips after the fourth operation, a positive lockout occurs on all three Recloser units.

The occurrence of a single phase fault will cause one of the single pole units to operate in order to clear the system. Meanwhile, the two remaining single phase units, being inactive, will temporarily maintain the system on two phase operation.

A 3-phase fault will cause these three combined individual units to operate simultaneously, as one, to either restore service on a temporary fault or to lockout in the case of a permanent fault. The three units can then be reset, as one, by a single operating handle.

Catalog Numbers—Opening Sequence*						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
5	3HA1D-5A	3HA1D-5AB	3HA1D-5C	3HA1D-5AC	10	150
10	3HA1D-10A	3HA1D-10AB	3HA1D-10C	3HA1D-10AC	20	250
15	3HA1D-15A	3HA1D-15AB	3HA1D-15C	3HA1D-15AC	30	375
25	3HA1D-25A	3HA1D-25AB	3HA1D-25C	3HA1D-25AC	50	600
35	3HA1D-35A	3HA1D-35AB	3HA1D-35C	3HA1D-35AC	70	840
50	3HA1D-50A	3HA1D-50AB	3HA1D-50C	3HA1D-50AC	100	1200

*Opening sequence: Same as Type "H," see foot notes on preceding column.

L-M KYLE AUTOMATIC OIL SECTIONALIZER

The L-M Kyle type "GS" Automatic Oil Sectionalizer is a protective device for sectionalizing single phase branch lines of 2.4 to 15 Kv. single and three phase distribution systems employing automatic oil reclosers of any type or make.

Operational abilities make possible the isolation of permanent faults on branch lines only when used in coordination with reclosers having either single-time or dual-time characteristics. It will not operate independently to interrupt short circuit currents — but must be used with a back-up recloser.

All ratings may be changed at any time by simply replacing the series trip coil. No recalibration is necessary. The L-M Kyle type "GS" Automatic Oil Sectionalizer offers a practical method of isolating permanent faults on single phase branch lines of single and 3-phase branch lines of single and 3-phase distribution systems.



Type "GS"

2400 to 15,000 Volts				Maximum
Cat. No.	Wt. Lbs. With Oil	Minimum Tripping Current (Amperes)	Operating Current (Amperes)	Operating Current (Amperes)
GSA-1B-A	20	8	150	
GSA-1B-B	20	14	200	
GSA-1B-C	20	20	250	
GSA-1B-D	20	28	375	
GSA-1B-E	20	48	600	
GSA-1B-F	20	70	840	
GSA-1B-G	20	100	1200	

Ratings may be changed by replacing the series trip coil.

L-M "ELEMEX" CAPACITORS



These capacitors include new materials, new designs, and new methods of manufacturing to assure more uniform results and longer life—packs made by a new method—major insulation folded without slitting—individual discharge resistors for each parallel group of packs—pack assembly doweled-anchored to tank base—a highly efficient non-inflammable dielectric liquid—"ELEMEX"—and an entirely new method of individual and continuous evacuation,

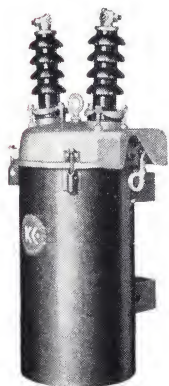
drying, capillary impregnation, testing and rigorous inspection. The result has been a capacitor with low unit stress on the insulation, excellent performance, and a remarkable service record.

"ELEMEX" Capacitors offer many conveniences in installation and maintenance. All sizes and ratings fit the same hanger bolt holes. Terminal elevation above hanger flanges is the same for 15's and 25's in each voltage class, making mixing or changing simple. "Paragroove" connectors make "ELEMEX" Capacitors easier to install and connect. And, with Stainless Steel tanks, there is no paint to scrape and touch up. The blue-gray "Hydis" surface treatment is part of the metal, and is an excellent conductor, assuring a good ground.

Bushings are of rugged, one-piece, wet process porcelain units with liberal striking and creepage distances. Bushings are solder-sealed.

Volts	Kvar	Catalog Number	Width	Thickness	Total Height	Bushing Height Above Tank	Total Tank Height	Top of Tank Above Hanger Flange	Terminal Elevation Above Hanger (B + D)	Length Below Hanger (A - E)
2400	15	87005C1	All ratings and sizes 13 $\frac{1}{16}$ " wide hanger to hanger.	All ratings and sizes 4 $\frac{13}{16}$ " thick side to side.	18 $\frac{1}{16}$ "	7"	11 $\frac{1}{16}$ "	4 $\frac{3}{4}$ "	11 $\frac{3}{4}$ "	6 $\frac{13}{16}$ "
	25	87005C2			24 $\frac{3}{16}$ "		17 $\frac{3}{16}$ "			12 $\frac{3}{16}$ "
4160	15	87005C3			18 $\frac{1}{16}$ "	7"	11 $\frac{1}{16}$ "	4 $\frac{3}{4}$ "	11 $\frac{3}{4}$ "	6 $\frac{13}{16}$ "
	25	87005C4			24 $\frac{3}{16}$ "		17 $\frac{3}{16}$ "			12 $\frac{3}{16}$ "
4800	15	87005C5	Hanger bolt holes 15 $\frac{1}{16}$ " center to center.		20 $\frac{3}{4}$ "	8 $\frac{7}{16}$ "	11 $\frac{13}{16}$ "	5 $\frac{3}{4}$ "	14 $\frac{3}{16}$ "	6 $\frac{1}{16}$ "
	25	87005C6			26"		17 $\frac{1}{16}$ "			11 $\frac{13}{16}$ "
7200	15	87005C7			20 $\frac{3}{4}$ "	8 $\frac{7}{16}$ "	11 $\frac{13}{16}$ "	5 $\frac{3}{4}$ "	14 $\frac{3}{16}$ "	6 $\frac{1}{16}$ "
	25	87005C8			26"		17 $\frac{1}{16}$ "			11 $\frac{13}{16}$ "
7960	15	87005C9			20 $\frac{3}{4}$ "	8 $\frac{7}{16}$ "	11 $\frac{13}{16}$ "	5 $\frac{3}{4}$ "	14 $\frac{3}{16}$ "	6 $\frac{1}{16}$ "
	25	87005C10			26"		17 $\frac{1}{16}$ "			11 $\frac{13}{16}$ "
12470	15	87005C11			22 $\frac{3}{8}$ "	9 $\frac{13}{16}$ "	12 $\frac{1}{16}$ "	5 $\frac{3}{8}$ "	15 $\frac{3}{16}$ "	7 $\frac{3}{16}$ "
13800	15	87005C13			22 $\frac{3}{8}$ "	9 $\frac{13}{16}$ "	12 $\frac{1}{16}$ "	5 $\frac{3}{8}$ "	15 $\frac{3}{16}$ "	7 $\frac{3}{16}$ "

TYPE "L" KYLE HEAVY DUTY OIL CIRCUIT RECLOSER



The Type "L" Heavy Duty Oil Circuit Recloser was especially designed for use on primary lines having high fault currents. It meets the need for an automatic circuit recloser that is able to offer protection to circuits with load currents up to 100 amperes and fault currents up to 4000 amperes.

The ability of the Kyle Heavy Duty Oil Circuit Recloser to provide adequate line protection under large fault currents is derived from the newly developed arc interruption arrangement.

By employing the contained oil, the drawn arcs are extinguished quickly and effectively. Accurate timing is insured by the highly dependable hydraulic control system. This mechanism is virtually free of variations caused by oil viscosity changes and is able to absorb extreme shocks without damage—thus assuring consistently trouble-free operation.

In operation, the Kyle Heavy Duty Recloser is completely automatic. A permanent line fault will cause it to reclose three times before locking out. If the fault is of a temporary nature, it will be cleared on the first, second or third operation and the Recloser will automatically reset itself for another protective cycle.

Specifications: Single Phase. **Operating Voltage**—2400 to 15,000 volts. **Insulation Level**—Meets requirements for 15 KV station equipment. **Impulse Level**—110 KV. **Control Mechanism**—Full hydraulic and equalized to virtually eliminate timing variations due to oil viscosity. **Size**—Overall height, 37 inches; Tank diameter, 11 inches. **Weight**—170 lbs. complete with oil. **Operation Sequences Available**—Standard: two fast, two retarded. **Optional:** two fast, two extra retarded.

Minimum Interrupting Capacity

Coil Size	Tripping Current	in Amperes		Catalog No.
		(†)	(††)	
25	50	1500	1500	LA-1D 25
35	70	2100	2100	LA-1D 35
50	100	3000	3000	LA-1D 50
75	140	4000	3000	LA-1D 70
100	200	4000	3000	LA-1D100

†2.4KVΔ, 2.4KV/4.16KV Y, 4.8KVΔ, 4.8KV/8.32KV Y, 7.2KVΔ.
 ††7.2KV/12.47KV Y, 7.62KV/13.2KV Y, 11KVΔ to 15KVΔ.

GENERAL APPLICATION DATA
TABLE FOR SELECTING SWITCH, CIRCUIT BREAKER, WIRE AND
FUSE SIZES FOR MOTOR BRANCH CIRCUITS

Full Load Current Rating of Motor	Minimum Allowable Size of Copper Wire Amer. Gauge or Cir. Mil.		No. Fuse Switch Size	To Select Proper Size of Fuse, Safety Switch or Circuit Breaker† (1947 N. E. Code, See Note‡)									
				Single Phase, Squirrel Cage and Synchronous (Full Voltage, Reactor and Resistor Starting) Code Letters "F" or "R"			Single Phase and Squirrel Cage and Synchronous. (Auto-Transformer Starting) Full Voltage Resistor or Reactor Starting Code Letters B to E Col. 9 Auto-Transformer Starting B to R (Column 8) ***				Wound Rotor AC and DC Code Letter "A"		
	Type R RW RU T TW	Type RH		Maximum Allowable Rating of Br. Cir. Fuses Amps.	Fusible Switch Amps.	Circuit Breaker Amps.	Maximum Allowable Rating of Br. Cir. Fuses Amps.		Fusible Switch Amps.	Circuit Breaker Amps.	Maximum Allowable Rating of Br. Cir. Fuses Amps.	Fusible Switch Amps.	Circuit Breaker Amps.
							8	9					
1**	14	14	No Fuse Safety Switches for Motor Circuits should be applied according to the 1947 National Electrical Code, Sections 4401 to 4410, Inclusive.	15	30	15	15	15	30	15	15	30	15
2**	14	14		15	30	15	15	15	30	15	15	30	15
3**	14	14		15	30	15	15	15	30	15	15	30	15
4**	14	14		15	30	15	15	15	30	15	15	30	15
5**	14	14		15	30	15	15	15	30	15	15	30	15
6**	14	14		20	30	15	15	15	30	15	15	30	15
7	14	14		25	30	15	20	15	30	15	15	30	15
8	14	14		25	30	20	20	20	30	20	15	30	20
9	14	14		30	30	20	25	20	30	20	15	30	20
10	14	14		30	30	25	25	20	30	20	15	30	20
12	14	14		40	60	25	30	25	30	25	20	30	20
14	12	12		45	60	35	35	30	60	35	25	30	25
16	12	12		50	60	35	40	35	60	35	25	30	25
18	10	10		60	60	50	45	40	60	35	30	30	35
20	10	10		60	60	50	50	40	60	35	30	30	35
22	10	10		70	100	50	60	45	60	50	35	60	35
24	10	10		80	100	50	60	50	60	50	40	60	50
26	8	10		80	100	50	70	60	100	50	40	60	50
28	8	10		90	100	70	70	60	100	50	45	60	50
30	8	8		90	100	70	70	60	100	50	45	60	50
32	8	8		100	100	70	80	70	100	50	50	60	50
34	6	8		110	200	70	90	70	100	70	60	60	70
36	6	8		110	200	90	90	80	100	70	60	60	70
38	6	6		125	200	90	100	80	100	70	60	60	70
40	6	6		125	200	90	100	80	100	70	60	60	70
42	6	6		125	200	90	110	90	100	70	70	100	70
44	6	6		125	200	90	110	90	100	70	70	100	70
46	4	6		150	200	90	125	100	100	70	70	100	70
48	4	6		150	200	100	125	100	100	90	80	100	90
50	4	6		150	200	100	125	100	100	90	80	100	90
52	4	6		175	200	100	150	110	200	90	80	100	90
54	4	4		175	200	100	150	110	200	90	90	100	90
56	4	4		175	200	100	150	120	200	100	90	100	100
58	3	4		175	200	100	150	120	200	100	90	100	100
60	3	4		200	200	100	150	120	200	100	90	100	100
62	3	4		200	200	100	175	125	200	100	100	100	100
64	3	4		200	200	100	175	150	200	100	100	100	100
66	2	4		200	200	125	175	150	200	125	100	100	125
68	2	4		225	400	125	175	150	200	125	110	200	125
70	2	3		225	400	125	175	150	200	125	110	200	125
72	2	3		225	400	125	200	150	200	125	110	200	125
74	2	3		225	400	125	200	150	200	125	125	200	125
76	2	3		250	400	125	200	175	200	125	125	200	125
78	1	3		250	400	125	200	175	200	125	125	200	125
80	1	3		250	400	125	200	175	200	125	125	200	125
82	1	2		250	400	150	225	175	200	125	125	200	125
84	1	2		250	400	150	225	175	200	150	150	200	150
86	1	2		300	400	150	225	175	200	150	150	200	150
88	1	2		300	400	150	225	200	200	150	150	200	150
90	0	2		300	400	150	225	200	200	150	150	200	150
92	0	2		300	400	150	250	200	200	150	150	200	150
94	0	1		300	400	150	250	200	200	150	150	200	150
96	0	1		300	400	150	250	200	200	150	150	200	150
98	0	1		300	400	150	250	200	200	150	150	200	150
100	0	1		300	400	150	250	200	200	150	150	200	150
105	00	1		350	400	175	300	225	400	175	175	200	175
110	00	0		350	400	175	300	225	400	175	175	200	175
115	00	0		350	400	175	300	250	400	175	175	200	175
120	000	0		400	400	200	300	250	400	200	200	200	200
125	000	00		400	400	200	350	250	400	200	200	200	200
130	000	00		400	400	200	850	300	400	200	200	200	200
135	0000	00		450	600	200	350	300	400	200	225	400	200
140	0000	00		450	600	225	350	300	400	225	225	400	225
145	0000	000		450	600	225	400	300	400	225	225	400	225
150	0000	000		450	600	225	400	300	400	225	225	400	225

**For the grouping of small motors under the protection of a single set of fuses see section 4343 N. E. Code.
 ***High reactance squirrel cage motors are those designed to limit the starting current by means of deep-slot secondaries or double-wound secondaries, and are generally started on full voltage.
 †Based on 1947 code. Where code-marked motors are employed, refer to 1947 N. E. Code, Section 94304.
 NOTE: Lug sizes of all switches and circuit breakers are in accordance with the 1947 N. E. Code.

GENERAL APPLICATION DATA
AVERAGE FULL LOAD AMPERES FOR VARIOUS HORSE-POWER RATED MOTORS

H.P.	SINGLE PHASE A. C.					THREE PHASE A. C. MOTORS Squirrel Cage and Wound Rotor										
						Induction Type					Synchronous Type					
	115V.	200V.	208V.	230V.	440V.	110V.	200V.	208V.	220V.	440V.	550V.	200V.	208V.	220V.	440V.	550V.
1/6	3.2	1.8	1.8	1.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1/4	4.6	2.6	2.5	2.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1/2	7.4	4.3	4.	3.7	.....	4.	2.2	2.1	2.	1.0	.8	.....	.....	.....	.....	.....
3/4	10.2	5.9	5.6	5.1	.....	5.6	3.1	3.0	2.8	1.4	1.1	.....	.....	.....	.....	.....
1	13.	7.5	7.2	6.5	.....	7.	3.9	3.7	3.5	1.8	1.4	.....	.....	.....	.....	.....
1 1/2	18.4	10.6	10.1	9.2	.....	10.	5.5	5.3	5.	2.5	2.0	.....	.....	.....	.....	.....
2	24.	13.8	13.2	12.	.....	13.	7.2	6.9	6.5	3.3	2.6	.....	.....	.....	.....	.....
3	34.	19.6	18.7	17.	.....	.....	9.9	9.5	9.	4.5	4.	.....	.....	.....	.....	.....
5	56.	32.2	30.8	28.	.....	.....	16.5	15.9	15.	7.5	6.	.....	.....	.....	.....	.....
7 1/2	80.	46.	44.	40.	21.	.....	24.	23.	22.	11.	9.	.....	.....	.....	.....	.....
10	100.	57.5	55.	50.	26.	.....	30.	29.	27.	14.	11.	.....	.....	.....	.....	.....
15	.....	.....	.....	.....	.....	.....	44.	42.	40.	20.	16.	.....	.....	.....	.....	.....
20	.....	.....	.....	.....	.....	.....	57.	55.	52.	26.	21.	.....	.....	.....	.....	.....
25	.....	.....	.....	.....	.....	.....	70.	68.	64.	32.	26.	59.	57.	54.	27.	22
30	.....	.....	.....	.....	.....	.....	86.	83.	78.	39.	31.	72.	69.	65.	33.	26.
40	.....	.....	.....	.....	.....	.....	114.	110.	104.	52.	41.	95.	91.	86.	43.	35.
50	.....	.....	.....	.....	.....	.....	138.	133.	125.	63.	50.	119.	114.	108.	54.	44.
60	.....	.....	.....	.....	.....	.....	165.	159.	150.	75.	60.	141.	136.	128.	64.	51.
75	.....	.....	.....	.....	.....	.....	204.	196.	185.	93.	74.	177.	171.	161.	81.	65.
100	.....	.....	.....	.....	.....	.....	271.	261.	246.	123.	98.	232.	224.	211.	106.	85.
125	.....	.....	.....	.....	.....	.....	341.	329.	310.	155.	124.	290.	280.	264.	132.	106.
150	.....	.....	.....	.....	.....	.....	396.	382.	360.	180.	144.	.....	.....	.....	158.	127.
200	.....	.....	.....	.....	.....	.....	638.	509.	480.	240.	192.	.....	.....	.....	210.	168.
See Note 2						See Notes 2 and 4						See Notes 2 and 4				

H.P.	TWO PHASE 4 WIRE A. C. Squirrel Cage and Wound Rotor							DIRECT CURRENT		
	Induction Type				Synchronous Type					
	110V.	220V.	440V.	550V.	220V.	440V.	550V.	115V.	230V.	550V.
1/2	4.	2.	1.	.8	-----	-----	-----	4.6	2.3	-----
3/4	4.8	2.4	1.2	1.0	-----	-----	-----	6.6	3.3	1.4
1	6.4	3.2	1.6	1.3	-----	-----	-----	8.6	4.3	1.8
1 1/2	8.8	4.4	2.2	1.8	-----	-----	-----	12.6	6.3	2.6
2	11.2	5.6	2.8	2.2	-----	-----	-----	16.4	8.2	3.4
3	-----	8.	4.	3.2	-----	-----	-----	24.	12.	5.0
5	-----	13.	7.	6.	-----	-----	-----	40.	20.	8.3
7 1/2	-----	19.	9.	8.	-----	-----	-----	58.	29.	12.
10	-----	24.	12.	10.	-----	-----	-----	76.	38.	16.
15	-----	34.	17.	14.	-----	-----	-----	112.	56.	23.
20	-----	45.	23.	18.	-----	-----	-----	148.	74.	31.
25	-----	55.	28.	22.	47.	24.	19.	184.	92.	38.
30	-----	67.	34.	27.	56.	29.	23.	220.	110.	46.
40	-----	88.	44.	35.	75.	37.	31.	292.	146.	61.
50	-----	108.	54.	43.	94.	47.	38.	360.	180.	75.
60	-----	129.	65.	52.	111.	56.	44.	430.	215.	90.
75	-----	158.	79.	63.	140.	70.	57.	536.	268.	111.
100	-----	212.	106.	85.	182.	93.	74.	-----	355.	148.
125	-----	268.	134.	108.	228.	114.	93.	-----	443.	184.
150	-----	311.	155.	124.	-----	137.	110.	-----	534.	220.
200	-----	415.	208.	166.	-----	182.	145.	-----	712.	295.
See Notes 2, 3 and								See Note 1		

Notes:

- (1) These values for full load current are average for all speeds.
- (2) These values of full load current are for motors running at speeds usual for belted motors and motors with normal torque characteristics. Motors built for especially low speeds or high torques may require more running current, in which case the nameplate current ratings should be used.
- (3) Current in common conductors of 2 phase, 3 wire system will be 1.41 times value given.
- (4) For 90 and 80 per cent P.F. the above figures should be multiplied by 1.1 and 1.25 respectively.
- (5) For further information consult 1947 National Electrical Code.

CENTURY MOTORS

CENTURY SPLIT PHASE MOTORS

1/6, 1/4 and 1/3 Horsepower



1/6 H.P. Type SP
Split Phase Induction
Single Phase Motor

These motors are suitable for applications that do not require starting torque much in excess of full load torque, such as: air washers, blowers, fans, dish washers, factory sewing machines, washing and ironing machines, small tools, and similar equipment.

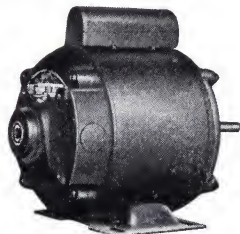
60 Cycles

Frame	HP	F. L. RPM Approx.	Volts	—Sleeve Bearing—		Ball Bearing Rigid Base
				Rigid Base	Cushion Base	
63G	1/6	1750	115	\$13.95	\$14.89	-----
65L	1/4	1750	115	\$15.94	\$16.88	-----
C562	1/3	1750	115	16.85	18.00	-----

CENTURY CAPACITOR MOTORS

1/4 to 20 Horsepower

Capacitor motors are in general, suitable for the same applications as type RS motors. The RS motor has higher starting torque with lower starting current while the capacitor motor has higher pull-up torque. The applications are the same: oil burners, unit heaters, fans and blowers, packaging machines, compressors and domestic refrigeration, etc.



1/6 H.P. Type CSH
Capacitor Start Induction
Motor

60 Cycles

Type CSH

Frame	HP	F. L. RPM Approx.	Volts	—Sleeve Bearing—		Ball Bearing Standard
				Standard	Cushion Base	
65L	1/4	1750	115	\$17.87	\$18.81	\$22.05
65L	1/3	1750	115	25.55	26.49	23.62 [†]
81	1/2	1750	115	36.47	38.35	40.65 [†]
*83	1/2	1165	115	47.76 [†]	-----	-----
83	3/4	1750	115	46.71	48.59	50.89

Type CSN

Frame	HP	F. L. RPM	Volts	Standard	Cushion Base	Ball Bearing Standard
204	3/4	1165	115/230	91.00	94.00	91.00
203	1	1750	115/230	70.00	73.00	70.00
224	1	1165	115/230	117.00	126.00	117.00
204	1 1/2	1750	115/230	91.00	94.00	91.00
224	2	1750	115/230	117.00	126.00	117.00
225	3	1750	115/230	149.00	158.00	149.00
254	5	1750	230	-----	-----	218.00

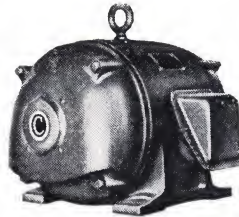
Δ—254 and smaller open frames have motor mounted condensers and internal cutout; 284 and larger frames have condensers and potential relay in separately mounted capacitor unit.

†—Totally enclosed, not fan cooled. ‡67L frame.
*—83 frame. *Automatic Overload Protection.
•50° C.

CENTURY MOTORS

CENTURY TOTALLY ENCLOSED

CENTURY SPLASH PROOF MOTORS

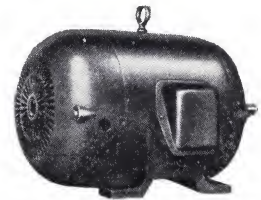


3 HP SC Splash Proof
Squirrel Cage Induction
3-Phase Motor

These motors are suitable for installations surrounded by processes which require splashing or where plants and machinery are washed down, such as dairies, and creameries. The solid frame and baffled air intake and outlet design of end brackets protect the vital parts of the motor, available in sizes from 1/2 to 125 horsepower.

FAN COOLED MOTORS

Totally enclosed fan cooled motors are available in sizes from 2 to 30 horsepower. These motors are suitable for dusty surroundings where the dust is of a highly explosive nature, or where the dust must be kept outside the motor because of its destructive effect.



75 HP Type SC Totally En-
closed Fan Cooled Motor

CENTURY EXPLOSION PROOF MOTORS

2 to 30 Horsepower



Explosion proof motors are available in sizes 2 to 30 horsepower. They provide protection to the vital parts of the motors and the surrounding explosive atmospheres containing Ethyl Ether Vapor (Class I, Group C), gasoline, petroleum, naphtha, acetone, lacquer solvent vapors and natural gases (Class I, Group D), metal dust (Magnesium) (Class II, Group E), carbon black, coal dust (Class II, Group F) or explosive grain dusts (Class II, Group G).

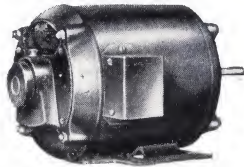
Frame	H.P.	F.L. R.P.M. Approx.	Volts	Approx. Shpg. Wt. Lbs.	Price Each
203	1	1725	208 220/440 550	70	\$99.00
204	1	1155		78	114.00
225	1	855		143	127.00
204	1 1/2	1740		78	114.00
224	1 1/2	1150		130	123.00
254	1 1/2	870		196	156.00
224	2	1740		136	132.00
225	2	1155		143	150.00
254	2	870		196	205.00
225	3	1740		142	150.00
254	3	1160	208 220/440 550	196	182.00
284	3	855		278	241.00
254	5	1740		196	182.00
284	5	1150		278	234.00
324	5	860		396	312.00
284	7 1/2	1730		278	234.00
324	7 1/2	1160		396	303.00
326	7 1/2	860		452	349.00
324	10	1735		396	303.00
326	10	1160		452	338.00
364	10	870	208 220/440 550	-----	-----
326	15	1735		452	338.00

These prices are for motors with Underwriters Label for Class I, Group D or Class II, Groupes E, F and G installations.

CENTURY MOTORS

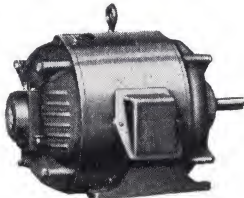
CENTURY REPULSION START INDUCTION MOTORS

½ to 20 Horsepower



½ H.P. Century Type RS
Repulsion Start Induction-Brush
Lifting Single Phase Motor

These motors are suitable for installations requiring high starting torque with low starting current such as: Pumps, air compressors, refrigerator compressors, oil burners, blowers, fans, machine tools, stokers, grinders, packaging machines, conveyors and similar applications where the motor starts against heavy back pressures or loads that are hard to start.



5 H.P. Century Type RS
Repulsion Start Induction-Brush
Lifting Single Phase Motor

A.C.—60 Cycle—1 Phase—Constant Speed—
Continuous Duty

Continuous Duty							Fract' HP
							Sleeve Brg.
							Encl. 65° C.
							Inter-
							gral HP
							Ball Brg.
							50° C.
							Splash
							Proof
Frame	HP	F. L. RPM Approx.	Sleeve Stand- ard	Bearing Cushion Base	Bearing Stand- ard	Ball Brg. 50° C.	Splash Proof
115/230 Volts Interchangeable							
81	½	1750	\$36.47	-----	\$40.65	-----	-----
83	¾	1750	46.71	-----	50.89	-----	-----
204	¾	1165	91.00	\$94.00	91.00	\$103.00	-----
203	1	1750	70.00	73.00	70.00	82.00	-----
224	1	1750	117.00	126.00	117.00	132.00	-----
204	1½	1750	91.00	94.00	91.00	103.00	-----
224	2	1750	117.00	126.00	117.00	132.00	-----
225	3	1750	149.00	158.00	149.00	164.00	-----
254	5	1750	-----	-----	218.00	238.00	-----
284	7½	1750	-----	-----	308.00	355.00	-----
364	10	1750	-----	-----	407.00	-----	-----
364	15	1750	-----	-----	539.00	-----	-----
365	20	1750	-----	-----	675.00	-----	-----

Other Speeds—(also other frequencies) available.

Ask for Prices on

GENERATORS —

FREQUENCY CHANGERS —

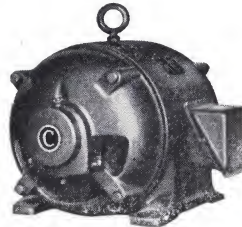
GEAR HEAD MOTORS

Motor Prices Subject to Change Without Notice

CENTURY MOTORS

CENTURY TYPE SC SQUIRREL CAGE MOTORS

1/6 to 400 Horsepower



2 H.P. Type SC Squirrel Cage
Induction Three Phase Motor

By far, the greatest number of motors in use today on power circuits, are Type SC, squirrel cage motors. They are suitable for all types of general purpose applications.

Frequently special conditions of the load or surroundings will require something different than the standard open rated Type SC.

The type SCH motor also with the same mechanical appearance is built to furnish a high starting torque with a low starting current. This motor is used on such installations as refrigeration compressors where the starting torque of a type SC is not high enough. Current limiting starting equipment is not required on 30 Hp. and smaller, built in sizes 7½ to 200 horsepower.

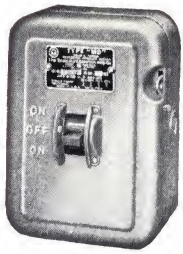
Squirrel Cage Induction Motors

60 Cycles—3 and 2 Phase

Frame	HP	F. L. RPM Approx.	Volts	Open 40° C.			
				Type SC Sleeve Bear- ing	Type SC Ball Bear- ing	Type SCH Sleeve Bear- ing	Type SCH Ball Bear- ing
63L	¼	1735	220	\$23.36	\$27.54		
65L	½	1725	220	26.28	30.46		
81	¾	1735	220-440	33.18	37.36		
81	¾	1735	220-440	42.48	46.66		
203	1	1735	110-550	59.00	59.00		
204	1	1155	110-550	69.00	69.00		
204	1½	1740	110-550	69.00	69.00		
224	1½	1150	110-550	80.00	80.00		
224	2	1740	110-550	80.00	80.00		
225	2	1155	110-550	89.00	89.00		
225	3	1740	110-550	89.00	89.00		
254	3	1160	110-550	106.00	106.00	\$111.00	\$111.00
254	5	1740	110-550	106.00	106.00	111.00	111.00
284	5	1150	110-550	139.00	139.00	146.00	146.00
284	7½	1730	110-550	139.00	139.00	146.00	146.00
324	7½	1160	110-550	176.00	176.00	185.00	185.00
324	10	1735	110-550	176.00	176.00	185.00	185.00
326	10	1160	110-550	211.00	211.00	222.00	222.00
326	15	1735	110-550	211.00	211.00	222.00	222.00
365	15	1160	220-550	341.00	341.00	367.00	367.00
364	20	1750	220-550	278.00	278.00	299.00	299.00
365	20	1165	220-550	341.00	341.00	367.00	367.00
364	25	1750	220-550	327.00	327.00	352.00	352.00
404	25	1165	220-550	424.00	424.00	456.00	456.00
365	30	1745	220-550	375.00	375.00	403.00	403.00
405	30	1170	220-550	486.00	486.00	522.00	522.00
404	40	1750	220-550	466.00	466.00	501.00	501.00
444	40	1170	220-550	607.00	607.00	698.00	698.00
445S	50	1750	220-550	559.00	559.00	600.00	600.00
445	50	1170	220-550	720.00	728.00	837.00	837.00
444S	60	1765	220-550	698.00	698.00	803.00	803.00
504U	60	1165	220-550	843.00	843.00	969.00	969.00
505	75	1170	220-550	1014.00	1014.00	1166.00	1166.00
584	75	875	220-550		1191.00		1369.00
4A584S	100	1170	220-550		1284.00		1746.00
585	100	880	220-550		1489.00		1713.00
4A585S	125	1175	220-550		1566.00		1801.00
586	125	880	220-550		1754.00		2017.00

†These motors are listed short shaft for flange coupling but standard long shaft will be supplied for V-belt drive at same price.

TRUMBULL MANUAL STARTERS



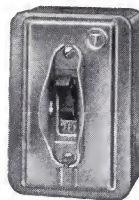
"MD-5"



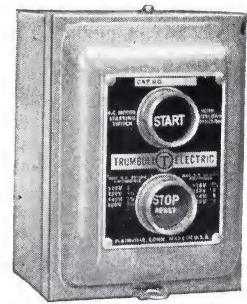
"RB"



"RB"



"TT"



"PT" Push Button
Size 0

NO OVERLOAD PROTECTION

POLES	VOLTAGE and CURRENT RATINGS		HORSE POWER RATINGS		GENERAL PURPOSE NEMA TYPE 1 ENCLOSURE		WATER TIGHT and DUST TIGHT NEMA 4 and 5 ENCLOSURE		HAZARDOUS CLASS 1 GROUP D ENCLOSURE		FLOAT SWITCH		SWITCH INTERIOR ONLY	
	Amps.	Volts	A.C.	D.C.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price

Type "RB" Tumbler Switch

2	30 5	250 600	2 2	2 1	2228	\$2.15	2228C	\$10.25	2228E	\$10.25	2228F	\$3.75	2228S 2227S†	\$1.60 1.60
3	30 20	250 600	2 2		2368	5.30	2368C	13.35	2368E	13.35	-----	-----	2368S	4.75
3 Way	10 5	125 250			2328	2.15	-----	-----	-----	-----	2328F	3.75	2328S	1.60

Type "MD-5" Manual Reversing and Double Throw Starters

SIZE 1—MANUAL DOUBLE THROW AC ONLY

			110V	208 230	440 600									
2	20	250	1½	3	5	7260	\$9.35	-----	-----	-----	-----	-----	7260S	\$8.25
3	20	600	3	5	7½	7360	10.45	7360C	\$35.00	-----	-----	-----	7360S	9.35

SIZE 1—MANUAL REVERSING AC ONLY

2	20	250	1½	3	5	8260	\$10.45	-----	-----	-----	-----	-----	8260S	\$9.35
3	20	600	3	5	7	8360	11.55	8360C	\$37.00	-----	-----	-----	8360S	10.45

Flush Plate for Switch Interior only. Cat. 1199 — \$0.35 List Each.

†For Shallow Type Mounting.

TYPES "TT" AND "PT" WITH THERMOSTATIC OVERLOAD PROTECTION

Prices Are With Heaters

NEMA SIZE AND TYPE	Poles	HEATER SERIES	HORSE POWER						GENERAL PURPOSE ENCLOSURE				Water and Dust Tight NEMA 4 & 5 Enclosure Toggle		Hazardous Location NEMA Type 7 Enclosure Toggle		Interior Only	
			A.C.			D.C.			Toggle		Push Button							
			115V	230V	440 600V	32V	120V	250V	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
"OO"—"TT"	1 2	9700	1 1	1 1		¼ ¼	¾ ¾	1 1	1800	\$3.45	-----	-----	1800C	\$11.55	1880E	\$11.55	1800S	\$2.90
									1900	3.85	-----	-----	1900C	11.95	1900E	11.95	1900S	3.30
"O"—"PT"	2 3 4	81D	1 1½	1½ 2	1½ 2				91201	9.90	91202	\$9.90	91201C	25.85	91201E	33.00	Toggle or Push Button Add S to Cat. No.	9.10
									91301	11.00	91302	11.00	91301C	26.95	91301E	34.00		10.20
									91401	16.50	91402	16.50	91401C	32.00	91401E	40.00		15.70
"1"—"PT"	2 3 4	81D	1½ 3	3 5	5 7½				91211	12.65	91212	12.65	91211C	32.00	91211E	39.00		11.55
									91311	13.75	91312	13.75	91311C	33.00	91311E	40.00		12.65
									91411	19.25	91412	19.25	91411C	39.00	91411E	45.00		18.15
*D Loom	3	81D	1½	2	2				91303	11.00	-----	-----	-----	-----	-----	-----		-----

†When ordering heaters select the heater series identical to or next larger than ampere on motor. One required for 2 Pole, two for 3 pole devices

††Flush plate for use with switch interior only. Cat. 1199—\$0.35 List Each.

*Pedestal for Loom Switch — Single Mounting for Nema 1 Enclosure — Cat. No. 72A1 \$2.75 List Each.

RELAY HEATERS FOR PT MANUAL STARTERS

For use with continuously rated Motors. Heaters are included in control equipment prices but should be ordered separately. One required with 2 Pole, 2 with 3 & 4 Pole devices. Specify catalog number of heaters required.

Selection Instructions for Types PT 2 and PT 7½

When necessary to change heaters, select from table. To prevent overloading the starter do not select heaters for motor of larger rating than the maximum given on starter nameplate. To protect heater and starter during short circuit, provide motor branch circuit protection in accordance with N.E. code. In no case should the fuse rating exceed 3.5 times the motor full load current. For continuous rated 40 deg. C. rise motors, except high resistance rotor types (KR) select heaters from table. For continuous rated 50 and 55 deg. C. rise and 40 deg. C. rise high resistance rotor motors, multiply the full load current of motor by 0.90 and use this value to select heater from table.

For group fusing place ahead of starter, fuses rated as in table.

Selection Instructions for Loom Switch

The table gives the proper size of heater to trip the switch on approximately 140 percent motor current in an ambient of 40 deg. C. (104 deg. F.). For motors requiring 125 percent protection, multiply rated motor current by 0.88 and use value obtained to select proper heater from table. Do not overload the starter by selecting heaters for a motor of larger H.P. rating than the maximum given on starter nameplate. To protect heaters against melting during short circuit, place ahead of starter fuses rated at not over 3.5 times full load current of motor. For group fusing (to protect against fire hazard only) place ahead of the starter fuses rated as given in table.

HEATERS FOR GENERAL USE (Not For Loom Switch)				HEATERS FOR GROUP FUSING											
Motor Current Amperes For Heaters When Used With				Heater Catalog Number	Motor Current Amperes For Heaters When Used With								Loom Switch	Max. Fuse Rating	
Heater Catalog Number	Sizes 0 and 1 2 Pole	Sizes 0 and 1 3 & 4 Pole	Size 0 2 Pole		Max. Fuse Rating		Size 0 3 & 4 Pole	Max. Fuse Rating		110-220 V.	440-550 V.				
					110-220 V.	440-550 V.		110-220 V.	440-550 V.						
81D228	.35 - .38	.34 - .36	81D274	.35 - .38	60	30	.34 - .36	60	30	.29 - .31	60	30			
81D224	.39 - .43	.37 - .39	81D600	.39 - .43	60	30	.37 - .39	60	30	.32 - .33	60	30			
81D225	.44 - .46	.40 - .43	81D601	.44 - .46	60	30	.40 - .43	60	30	.34 - .37	60	30			
81D230	.47 - .50	.44 - .48	81D276	.47 - .50	60	30	.44 - .48	60	30	.38 - .40	60	30			
81D525	.51 - .57	.49 - .53	81D602	.51 - .57	60	30	.49 - .53	60	30	.41 - .45	60	30			
81D231	.58 - .63	.54 - .59	81D277	.58 - .63	60	30	.54 - .59	60	30	.46 - .50	60	30			
81D526	.64 - .70	.60 - .65	81D603	.64 - .70	60	30	.60 - .65	60	30	.51 - .55	60	30			
81D527	.71 - .76	.66 - .71	81D604	.71 - .76	60	30	.66 - .71	60	30	.56 - .60	60	30			
81D233	.77 - .83	.72 - .78	81D279	.77 - .83	60	30	.72 - .78	60	30	.61 - .65	60	30			
81D528	.84 - .92	.79 - .88	81D605	.84 - .92	60	30	.79 - .88	60	30	.66 - .73	60	30			
81D235	.93 - 1.06	.89 - 1.00	81D281	.93 - 1.06	60	30	.89 - 1.00	60	30	.74 - .84	60	30			
81D529	1.07 - 1.12	1.01 - 1.06	81D606	1.07 - 1.12	60	30	1.01 - 1.06	60	30	.85 - .89	60	30			
81D530	1.13 - 1.24	1.07 - 1.17	81D607	1.13 - 1.24	60	30	1.07 - 1.17	60	30	.90 - .98	60	30			
81D531	1.25 - 1.36	1.18 - 1.29	81D608	1.25 - 1.36	60	30	1.18 - 1.29	60	30	.99 - 1.08	60	30			
81D238	1.37 - 1.52	1.30 - 1.43	81D284	1.37 - 1.52	60	30	1.30 - 1.43	60	30	1.09 - 1.20	60	30			
81D532	1.53 - 1.66	1.44 - 1.60	81D609	1.53 - 1.66	60	30	1.44 - 1.60	60	30	1.21 - 1.31	60	30			
81D533	1.67 - 1.84	1.61 - 1.74	81D610	1.67 - 1.84	60	30	1.61 - 1.74	60	30	1.32 - 1.46	60	30			
81D534	1.85 - 2.02	1.75 - 1.91	81D611	1.85 - 2.02	60	30	1.75 - 1.91	60	30	1.47 - 1.60	60	30			
81D535	2.03 - 2.20	1.92 - 2.08	81D612	2.03 - 2.20	60	30	1.92 - 2.08	60	30	1.61 - 1.75	60	30			
81D536	2.21 - 2.42	2.09 - 2.28	81D613	2.21 - 2.42	60	30	2.09 - 2.28	60	30	1.76 - 1.91	60	30			
81D537	2.43 - 2.68	2.29 - 2.52	81D614	2.43 - 2.68	60	30	2.29 - 2.52	60	30	1.92 - 2.10	60	30			
81D538	2.69 - 2.96	2.53 - 2.79	81D615	2.69 - 2.96	60	30	2.53 - 2.79	60	30	2.11 - 2.34	60	30			
81D539	2.97 - 3.24	2.80 - 3.05	81D616	2.97 - 3.24	60	30	2.80 - 3.05	60	30	2.35 - 2.55	60	30			
81D540	3.25 - 3.53	3.06 - 3.32	81D617	3.25 - 3.53	60	30	3.06 - 3.32	60	30	2.56 - 2.80	60	30			
81D541	3.54 - 3.86	3.33 - 3.64	81D618	3.54 - 3.86	100	30	3.33 - 3.64	100	30	2.81 - 3.06	60	30			
81D542	3.87 - 4.25	3.65 - 4.00	81D619	3.87 - 4.25	100	30	3.65 - 4.00	100	30	3.07 - 3.36	60	30			
81D543	4.26 - 4.65	4.01 - 4.39	81D620	4.26 - 4.65	100		4.01 - 4.39	100		3.37 - 3.69	100	30			
91D544	4.66 - 5.12	4.40 - 4.85	81D621	4.66 - 5.12	100		4.40 - 4.85	100		3.70 - 4.05	100				
91D545	5.13 - 5.61	4.86 - 5.30	81D622	5.13 - 5.61	100		4.86 - 5.30	100		4.06 - 4.45	100				
81D546	5.62 - 6.15	5.31 - 5.80	81D623	5.62 - 6.15	100		5.31 - 5.80	100		4.46 - 4.85	100				
81D547	6.16 - 6.76	5.81 - 6.44	81D624	6.16 - 6.76	100		5.81 - 6.44	100		4.86 - 5.36	100				
81D548	6.77 - 7.43	6.45 - 7.00	81D625	6.77 - 7.43	100		6.45 - 7.00	100		5.37 - 5.85	100				
81D549	7.44 - 8.13	7.01 - 7.65	81D626	7.44 - 8.13	100		7.01 - 7.65	100		5.86 - 6.42	100				
81D550	8.14 - 8.98	7.66 - 8.40	81D627	8.14 - 8.98	100		7.66 - 8.40	100		6.43 - 7.05	100				
81D551	8.99 - 9.73	8.41 - 9.20	81D628	8.99 - 9.73	100		8.41 - 9.20	100		7.06 - 7.70	100				
81D552	9.74 - 10.7	9.21 - 10.19	81D629	9.74 - 10.7	100		9.21 - 10.19	100		7.71 - 8.50	100				
81D553	10.8 - 11.7	10.20 - 11.04	81D630	10.8 - 11.7	100		10.20 - 11.04	100		8.51 - 9.30	100				
81D554	11.8 - 12.9	11.05 - 12.19	81D631	11.8 - 12.9	100		11.05 - 12.19	100		9.31 - 10.2	100				
81D555	13.0 - 14.1	12.20 - 13.29	81D632	13.0 - 14.1	100		12.20 - 13.29	100		10.3 - 11.1	100				
81D556	14.2 - 15.4	13.30 - 14.44	81D633	14.2 - 15.4	100		13.30 - 14.44	100		11.2 - 12.0	100				
81D557	15.5 - 16.7	14.45 - 15.84	81D634	15.5 - 16.7	100		14.45 - 15.84	100		12.1 - 13.2	100				
	Size 1 Only	Size 1 Only	81D635							13.3 - 14.4	100				
81D267	16.8 - 18.3	15.85 - 17.14	81D636							14.5 - 15.8	100				
81D266	18.4 - 19.8	17.15 - 18.69	81D637							15.9 - 17.0	100				
81D558	19.9 - 21.6	18.70 - 20.20	81D638							17.1 - 18.2	100				
81D559	21.7 - 22.2	20.21 - 21.70													

LIST PRICE \$0.85 EACH SEE DISCOUNT SCHEDULE MS

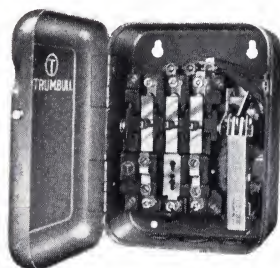
TRUMBULL MAGNETIC STARTERS

Across-the-Line Type for Single and Polyphase AC Service

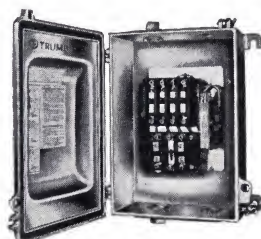
Self Reset Thermostatic Overload Protection

Low Voltage Protection

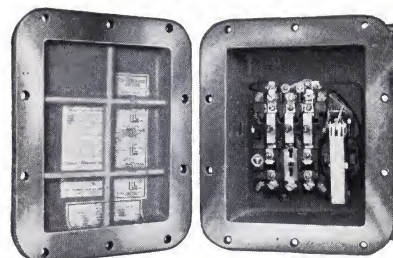
Finish — Machine Grey



Type M-2



Type CM-7 1/2
Water-Tight



Hazardous

Size	Type	Maximum Horse Power					Pole	Cat. No.—60 Cycles				LIST WITH HEATERS			
		Polyphase			Single Phase			110V. A. C. Separate Control Circuit 110- 600 V. A. C. Line Voltage	208-220 V. A. C.	440 V. A. C.	550-600 V. A. C.	General Purpose NEMA Type 1 (Use Listed Cat. No.)	ENCLOSURES		
		110 Volts	208- 220 Volts	440- 600 Volts	110 Volts	208- 220 Volts							Dust- Tight- NEMA Type 5 (Add “D” to Cat. No.)	Water- Tight NEMA Type 4 (Add “C” to Cat. No.)	Hazard- ous NEMA Type 7 (Add “E” to Cat. No.)
Remote Control—No Push Button Included															
0	M-2	1½	2	2	1	1½	2 3	02A1 03A1	02A5 03A5	03D1	.....	\$16.50 19.25	→ → →	\$34.00 37.00	Use Size 1
1	CM-7½	3	5	7½	1½	3	2 3 4	12A1 13A1 14A1	12A5 13A5 14A5	13D1 14D1	13E1 14E1	19.25 22.00 26.15	→ → →	37.00 40.00 45.00	\$69.00 73.00 77.00
1½	CM-7½	.....	.....	.....	3	5	2	152A1	152A5	.....	.....	24.75	→	44.00	76.00
2	CM-25	7½	15	25	3	7½	3 4	23A1 24A1	23A5 24A5	23D1 24D1	.....	42.00 50.00	\$64.00 78.00	78.00 102.00	131.00 153.00
3	CM-50	15	30	50	7½	15	3 4	33A1 34A1	33A5 34A5	33D1 34D1	.....	69.00 84.00	95.00 124.00	120.00 149.00	186.00
Local Control—Start-Stop Push Button in Cover															
0	M-2	1½	2	2	1	1½	2 3	02A1L 03A1L	02A5L 03A5L	03D1L	.....	\$19.25 22.00	→ → →	\$44.00 47.00	.....
1	CM-7½	3	5	7½	1½	3	2 3 4	12A1L 13A1L 14A1L	12A5L 13A5L 14A5L	13D1L 14D1L	.....	22.00 24.75 29.00	→ → →	47.00 50.00 55.00	.....
1½	CM-7½	.....	.....	.....	3	5	2	152A1L	152A5L	.....	.....	28.00	→	54.00	.....
2	CM-25	7½	15	25	3	7½	3 4	23A1L 24A1L	23A5L 24A5L	23D1L 24D1L	.....	47.00 55.00	→ →	89.00 113.00	.....
3	CM-50	15	30	50	7½	15	3 4	33A1L 34A1L	33A5L 34A5L	33D1L 34D1L	.....	78.00 92.00	106.00 135.00	131.00 160.00	.....

ORDERING INSTRUCTIONS

Cat. No. 2250 "Start-Stop" Push Button Station—Standard General Purpose—NEMA Type 1 enclosure—available for use with Magnetic Starters and Contactors. List \$2.75.

#Starters for Special Frequencies and Voltages, Specify Motor Rating, Cycles, Poles and Voltages.

†Hand Reset must be included on all starters when used with automatic Control. For Hand Reset add "HR" to catalog number. No extra charge. Cover must be opened to reset unless otherwise specified.

Heater Units — Use 9800 Series. One required with 2 Pole, two required with 3 and 4 Pole.

SCHEDULE MS

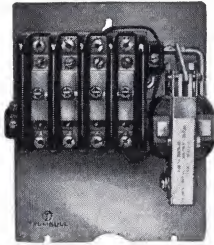
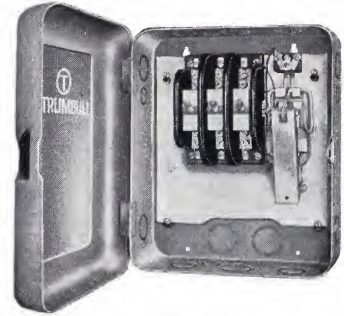
TRUMBULL MAGNETIC CONTACTORS

Across-the-Line Type for Single and Polyphase AC Service

†With Interlock for 3-Wire Control

Low Voltage Protection

Finish — Machine Grey

Open Type
Size 1Size 2
Enclosed Type

OPEN TYPE

Size	Type	Am- peres	Maximum Horse Power						Pole	# Cat. No.—60 Cycles				LIST EACH
			Polyphase			Single Phase				110 V. A. C. Separate Control Circuit 110-600 V. A.C. Line Voltage	208- 220 V. A. C.	440 V. A. C.	550- 600 V. A. C.	
			110 Volts	208- 220 Volts	440- 600 Volts	110 Volts	208- 220 Volts	440- 600 Volts						
Remote Control—No Push Button Included														
0	M-2	15	1½	2	2	1	1½	1½	2 3	C02A1S C03A1S	C02A5S C03A5S	C03D1S	C03E1S	\$12.40 13.75
1	CM-7½	25	3	5	7½	1½	3	5	2 3 4	C12A1S C13A1S C14A1S	C12A5S C13A5S C14A5S	C13D1S C14D1S	C13E1S C14E1S	15.15 16.50 20.65
2	CM-25	50	7½	15	25	3	7½	10	2 3 4	C22A1S C23A1S C24A1S	C22A5S C23A5S C24A5S	C23D1S C24D1S	..... ..... .....	28.00 30.00 40.00
3	CM-50	100	15	30	50	7½	15	25	2 3 4	C32A1S C33A1S C34A1S	C32A5S C33A5S C34A5S	C33D1S C34D1S	..... ..... .....	45.00 50.00 64.00

ENCLOSED TYPE

Size	Type	Am-peres	Maximum Horse Power						Pole	# Cat. No.—60 Cycles				LIST EACH		
			Polyphase			Single Phase				110 V. A. C. Separate Control Circuit 110-600 V. A.C. Line Voltage	208- 220 V. A. C.	440 V. A. C.	550- 600 V. A. C.	General Purpose NEMA Type 1 (Use Listed Cat. No.)	Dust- Tight NEMA Type 5 (Add "D" To Cat. No.)	Water- Tight NEMA Type 4 (Add "C" To Cat. No.)
			110 Volts	208- 202 Volts	440- 600 Volts	110 Volts	208- 220 Volts	440- 600 Volts								
Remote Control—No Push Button Included																
0	M-2	13	1½	2	2	1	1½	1½	2 3	C02A1 C03A1	C02A5 C03A5	C03D1	C03E1	\$13.75 15.15	➡	\$32.00 33.00
1	CM-7½	22	3	5	7½	1½	3	5	2 3 4	C12A1 C13A1 C14A1	C12A5 C13A5 C14A5	C13D1 C14D1	C13E1 C14E1	16.50 17.90 22.00	➡ ➡ ➡	34.00 36.00 40.00
2	CM-25	45	7½	15	25	3	7½	10	3 4	C22A1 C23A1 C24A1	C22A5 C23A5 C24A5	C23D1 C24D1	C23E1 C24E1	32.00 34.00 44.00	\$54.00 56.00 72.00	69.00 72.00 95.00
3	CM-50	90	15	30	50	7½	15	25	2 3 4	C32A1 C33A1 C34A1	C32A5 C33A5 C34A5	C33D1 C34D1	C33E1 C34E1	55.00 59.00 73.00	81.00 86.00 114.00	106.00 110.00 139.00

ORDERING INSTRUCTIONS

Cat. No. 2250 "Start-Stop" Push Button Station—Standard General Purpose—NEMA Type 1 enclosure—available for use with Magnetic Starters and Contactors. List \$2.75.

#Contactors for Special Frequencies and Voltages, Specify Motor Rating, Cycles, Poles and Voltages.

†3-wire control for pushbutton operation provided by a "holding-in" contact to obtain under voltage protection.

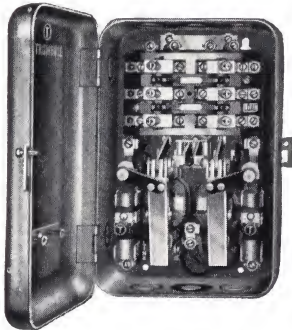
SCHEDULE MS

TRUMBULL MAGNETIC REVERSING STARTERS AND CONTACTORS

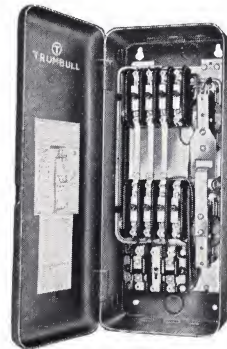
Across-the-Line Type for Single and Polyphase AC Service

Low Voltage Protection

Finish — Machine Grey



Size 0 — Reversing



Size 1 Reversing
General Purpose
Enclosure

REVERSING STARTERS—†WITH SELF RESET THERMOSTATIC OVERLOAD PROTECTION

Size	Type	Maximum Horse Power						Pole	#Cat. No.—60 Cycles				LIST WITH HEATERS		
		Polyphase			Single Phase				110V AC Separate Control Circuit 110-600V AC Line Voltage	208-220 V. A. C.	440 V. A. C.	550-600 V. A. C.	ENCLOSURES		
		110 Volts	208- 220 Volts	440- 600 Volts	110 Volts	208- 220 Volts	440- 600 Volts						General Purpose NEMA Type 1 (Use Listed Cat. No.)	Dust- Tight NEMA Type 5 (Add “D” to Cat. No.)	Water- Tight NEMA Type 4 (Add “C” to Cat. No.)
Remote Control—No Push Button Included															
0	M-2	1½	2	2	1	1½	1½	3	R03A1	R03A5	R03D1	.....	\$42.00	\$56.00	\$65.00
1	CM-7½	3	5	7½	1½	3	5	3 4	R13A1 R14A1	R13A5 R14A5	R13D1 R14D1	R13E1 R14E1	48.00 56.00	65.00 73.00	80.00 88.00
2	CM-25	7½	15	25	3	7½	10	3 4	R23A1 R24A1	R23A5 R24A5	R23D1 R24D1	.....	92.00 111.00	113.00 132.00	144.00 166.00
3	CM-50	15	30	50	7½	15	25	3 4	R33A1 R34A1	R33A5 R34A5	R33D1 R34D1	.....	144.00 176.00	177.00 208.00	221.00 252.00

REVERSING CONTACTORS—NO OVERLOAD PROTECTION

Remote Control—No Push Button Included															
0	M-2	1½	2	2	1	1½	1½	3	RC03A1	RC03A5	RC03D1	.....	\$37.00	\$53.00	\$61.00
1	CM-7½	3	5	7½	1½	3	5	3 4	RC13A1 RC14A1	RC13A5 RC14A5	RC13D1 RC14D1	RC13E1 RC14E1	44.00 53.00	61.00 69.00	76.00 84.00
2	CM-25	7½	15	25	3	7½	10	3 4	RC23A1 RC24A1	RC23A5 RC24A5	RC23D1 RC24D1	.....	83.00 102.00	103.00 122.00	135.00 157.00
3	CM-50	15	30	50	7½	15	25	3 4	RC33A1 RC34A1	RC33A5 RC34A5	RC33D1 RC34D1	RC33E1 RC34E1	135.00 166.00	168.00 198.00	212.00 242.00

ORDERING INSTRUCTIONS

#Starters for Special Frequencies and Voltages, Specify Motor Rating, Cycles, Poles and Voltages desired.

†Hand Reset must be included on all starters when used with automatic control. For Hand Reset add "HR" to Catalog number. No extra charge. Cover must be opened to reset unless otherwise specified.

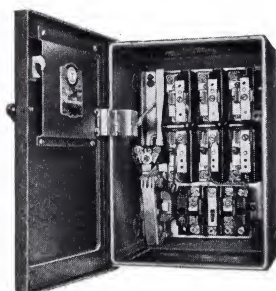
Heater Units — Use 9800 series, except M-2 use 8600 or 8800 series. Two required on 3 and 4 Pole.

Cat. No. 2250 "Start-Stop" Push Button Station—Standard General Purpose—NEMA Type 1 Enclosure—available for use with Magnetic Starters and Contactors. List price, \$2.75.

TRUMBULL MOTOR CONTROL

AC MAGNETIC COMBINATION STARTERS WITH FUSIBLE AND NO FUSE DISCONNECT

ACROSS-THE-LINE TYPE CM

Size 1
General Purpose

Self-Reset Thermostatic Overload and Low Voltage Protection

LIST PRICES ARE WITH HEATERS

Size	Type	MAXIMUM HORSE POWER						Pole	Fuse Clip Cap in Amps.	GENERAL PURPOSE NEMA TYPE 1 ENCLOSURE					
		Volts Polyphase			Volts Single Phase					60 Cyc. # 208-220 V A.C.		60 Cyc. # 440V A.C.		60 Cyc. # 550-600V A.C.	
		110	208- 220	440- 600	110	208- 220	440- 600			Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
0	CM-2	1½	2	2	1	1½	1½	3	NF 30	03A5NF21 03A5F21	\$ 37 43	03D1NF61 03D1F61	\$ 37 47	03E1NF61 03E1F61	\$ 37 47
								4	NF 30	04A5NF21 04A5F21	51 58	04D1NF61 04D1F61	51 64	04E1NF61 04E1F61	51 64
1	CM-7½	3	5	7½	1½	3	5	3	NF 30 60	13A5NF21 13A5F21 13A5F22	40 45 48	13D1NF61 13D1F61	40 50	13E1NF61 13E1F61	40 50
								4	NF 30 60	14A5NF21 14A5F21 14A5F22	54 61 65	14D1NF61 14D1F61	54 66	14E1NF61 14E1F61	54 66
2	CM-25	7½	15	25	3	7½	10	3	NF 60 100 200	23A5NF22 23A5F22 23A5F23 23A5F24	69 77 81 98	23D1NF62 23D1F62 23D1F63	69 81 87.....	....................	....................
								4	NF 60 100 200	24A5NF22 24A5F22 24A5F23 24A5F24	89 99 106 128	24D1NF62 24D1F62 24D1F63	89 106 113.....	....................	....................
3	CM-50	15	30	50	7½	15	25	3	NF 100 200 400	33A5NF23 33A5F23 33A5F24 33A5F25	111 119 131 188	33D1NF63 33D1F63 33D1F64	111 124 144.....	....................	....................
								4	NF 100 200 400	34A5NF23 34A5F23 34A5F24 34A5F25	146 155 172 249	34D1NF63 34D1F63	146 163..........	....................	....................

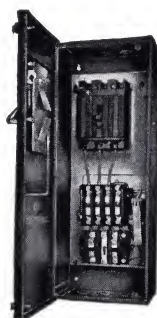
ORDERING INSTRUCTIONS

#Starters for Special Frequencies and Voltages, Specify Motor Rating, Cycles, Poles and Voltages.
Heater Units—Use 9800 Series. Two required with 3 or 4 pole.

SCHEDULE MS

TRUMBULL MOTOR CONTROL

AC MAGNETIC COMBINATION STARTERS WITH CIRCUIT BREAKER DISCONNECT



Size 1

LIST PRICES ARE WITH HEATERS

Size	Type	Maximum Horsepower			Poles	Breaker Rating		GENERAL PURPOSE NEMA TYPE 1 ENCLOSURE			
		Volts Polyphase				Amps.	Volts	60 Cycle#			
		110	208-220	440-600				208-220V	440V	550-600V	List Price
0	CM-2	1½	2	2	3	15A 15A	250V	03A5K11 -----	03D1K61 -----	03E1K61 -----	\$ 50 59
1	CM-7½	3	5		3	20A 35A	250V	13A5K12 13A5K14	----- -----	----- -----	53 53
				7½		15A 20A 25A	600V	----- ----- -----	13D1K61 13D1K62 13D1K63	13E1K61 13E1K62 -----	63 63 63
2	CM-25	7½	15		3	50A 70A	250V	23A5K15 23A5K27	----- -----	----- -----	81 100
				25		25A 35A 50A	600V	----- ----- -----	23D1K64 23D1K65	----- -----	97 97
3	CM-50	15	30		3	90A 100A 125A	250V	33A5K29 33A5K20 33A5K313	----- ----- -----	----- ----- -----	138 138 215
				50		50A 70A 90A 100A	600V	----- ----- ----- -----	33D1K67 33D1K69 33D1K60	----- ----- -----	152 152 152

ORDERING INSTRUCTIONS

#Starters for Special Frequencies and Voltages, Specify Motor Rating, Cycles, Poles and Voltages.
Heater Units—Use 9800 Series. Two required with 3 pole.



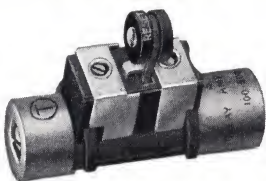
SPECIAL ENCLOSURES AND FEATURES

For information about special enclosures and features, consult nearest Trumbull sales representative.

SCHEDULE MS

TRUMBULL HEATER UNITS AND OVERLOAD RELAYS FOR MANUAL AND MAGNETIC STARTERS

All heaters and relays are based on a 40 degree centigrade ambient. Relays and heaters will carry approximately one per cent more current for each degree (centigrade) less than 40 degree centigrade ambient, also, one per cent less current for each degree (centigrade) more than 40 degree centigrade ambient.

Ampere Rating Heater Units and Overload Relays	Series 9700		Series 9800		Series 7800				Series 8600-8800			
												
	HEATER UNIT FOR "TT" MANUAL STARTER		HEATER UNITS FOR "CM-2", "CM-7 1/2", "CM-25", "CM-50", "M-2", "M-7 1/2" STARTERS		*GROUP FUSING HEATERS				OVERLOAD RELAYS for "M-2" Reversing Starters			
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each	Maximum Amp. Protective Fuses		Catalog Number		List Each	
1/2	9700-5-6	\$0.40	9800 1/2		7800 1/2	\$1.55	250V	600V	Self Reset	Hand Reset	\$2.40	
3/4	9700-7-8		9800 3/4		7800 3/4		60	30	8600 1/2	8800 1/2		
1	9701		9801		7801		60	30	8600 3/4	8800 3/4		
1 1/4	9701-2		9801 1/4		7801 1/4		60	30	8601	8801		
1 1/2	9701-5		9801 1/2		7801 1/2		60	30	8601 1/2	8801 1/2		
1 3/4	9701-7		9801 3/4		7801 3/4		60	30	8602	8802		
2	9702		9802		7802		60	30	8602 1/2	8802 1/2		
2 1/4	9702-5		9802 1/4		7802 1/4		60	30	8603	8803		
2 1/2	9703		9802 1/2		7802 1/2		60	30	8603 1/2	8803 1/2		
2 3/4	9703-5		9802 3/4		7802 3/4		60	30	8604	8804		
3	9704	\$0.85	9803		7803		60	30	8604 1/2	8804 1/2		
3 1/2	9704-5		9803 1/2		7803 1/2		100	30	8605	8805		
4	9705		9804		7804		100	30	8606	8806		
4 1/2	9706		9804 1/2		7804 1/2		100	30	8607	8807		
5	9707		9805		7805		100	30	8608	8808		
6	9708		9806		7806		100	30	8609	8809		
7	9709		9807		7807		100	30	8610	8810		
8	9710		9808		7808		100	30	8612	8812		
9	9712		9809		7809		100	30	8614	8814		
10	9714		9810		7810		100	30	8616	8816		
12			9812		7812		100	30	8618	8818		
14			9814		7814		100	30	8620	8820		
16			9816		7816		100	30	8622	8822		
18			9818		7818		100	30	8624	8824		
20			9820		7820		100	30	8628	8828		
22			9822		7822		100	30	8632	8832		
24			9824		7824		100	30	8636	8836		
26			9826				100	30	8640	8840		
28			9828				100	30				
30			9830				100	30				
32			9832				100	30				
36			9836				100	30				
40			9840				100	30				
45			9845				100	30				
50			9850-R									
55			9855-R									
60			9860-R									
65			9865-R									
70			9870-R									
75			9875-R									
80			9880-R									
85			9885-R									
90			9890-R									

*HEATER UNITS—GROUP FUSING

For Use on Size 0 Manual Starters When Two or More Starters are Grouped on a Single Set of Fuses

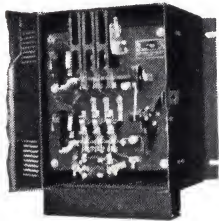
In accordance with the National Electric Code, when in a group of motors, each is protected by a motor-running protective device which has been approved for group installations, the motor branch circuit protective device may be omitted provided the feeder conductors supplying the group are protected by fuses having a rating not exceeding that indicated on the smallest motor-running protective device of the group. Motor branch circuit conductor requirements for group fusing are specified in paragraph 4343B. of the 1947 National Electric Code.

SCHEDULE MS

CUTLER-HAMMER A.C. AUTOMATIC STARTERS

BULLETIN 9605—PRIMARY RESISTOR TYPE

Time Limit Acceleration
3-Phase—60, 50, and 25 Cycles



Bulletin 9605—Size 2

Bulletin 9605 is used with squirrel-cage motors for reduced voltage starting. Primary resistor gives 65 per cent of line voltage on starting. Time limit acceleration through C-H Mercury Timer insures trouble-free constant timing of accelerating period. C-H eutectic thermal overload protection.

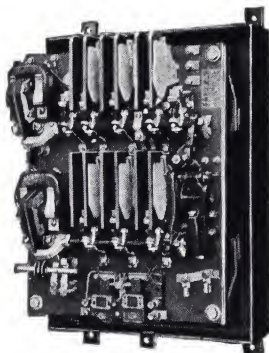
H.P.	—220 Volts—		—440 Volts—		—550 Volts—	
	Price	Lbs. Boxed	Price	Lbs. Boxed	Price	Lbs. Boxed
2-3	\$132.00	115	\$132.00	120	\$132.00	120
5	132.00	115	132.00	120	132.00	120
7½	197.00	115	132.00	120	132.00	120
10	207.00	140	207.00	145	207.00	120
15	215.00	140	215.00	175	215.00	145
20	278.00	170	232.00	200	232.00	200
25	288.00	200	242.00	200	242.00	220
30	297.00	200	297.00	225	297.00	225

Note—When ordering, give horsepower, voltage, cycles, and actual ampere rating of motor.

BULLETIN 9621—AUTO-TRANSFORMER TYPE

For Starting Squirrel-Cage Motors

For squirrel-cage motors, particularly where starting load varies over wide range. Constant accelerating time through C-H Mercury Timer. C-H eutectic thermal overload protection. Relay reset from outside of case. Both contacts mechanically interlocked. Connected at factory to give 65 per cent of line voltage on starting. An 80 per cent voltage tap also is provided.



Bulletin 9621

H.P.	—220 Volts—			—440-500 Volts—		
	50-60 Cycle Price	25 Cycle Price	Lbs. Boxed	50-60 Cycle Price	25 Cycle Price	Lbs. Boxed
5	\$261.00	\$261.00	230	\$261.00	\$261.00	230
7½	261.00	261.00	230	261.00	261.00	230
10	261.00	261.00	230	261.00	261.00	230
15	261.00	285.00	230	261.00	285.00	230
20	305.00	328.00	235	285.00	308.00	235
25	305.00	328.00	235	285.00	308.00	235
30	316.00	669.00	600	316.00	435.00	600
40	648.00	678.00	600	342.00	473.00	600
50	648.00	678.00	600	342.00	473.00	600

Prices include Heater Coil but no Pushbutton Station.

When ordering give horsepower, voltage, cycles, actual ampere rating of motor, phases and wires.

CUTLER-HAMMER A.C. MANUAL STARTERS

BULLETIN 9111—SINGLE PHASE STARTERS

For Commutator or Repulsion Type Motors



Bulletin 9111

Bulletin 9111 Starters are for use with single phase repulsion or commutator type, self-starting AC motors that can be accelerated from rest to full speed in 15 seconds without exceeding 150 per cent full load. Safety enclosing case. Low voltage protection. Sizes form 1 to 50 horsepower, 110, 220 or 440 volts, 25 to 60 cycles.

		25 to 60 Cycles					
		—110 Volts—		—220 Volts—		—440 Volts—	
Starter Size	Max. H.P.	Lbs. Bxd.	Price Each	Lbs. Bxd.	Price Each	Lbs. Bxd.	Price Each
A 1	1	50	\$34.00	50	\$34.00	50	\$43.00
A 2	2	50	37.00	50	37.00	50	43.00
A 3	3	---	---	50	37.00	50	43.00
B 3	3	70	37.00	---	---	---	---
B 5	5	70	40.00	70	40.00	70	54.00
B 7½	7½	---	---	80	55.00	70	58.00
B 10	10	---	---	80	81.00	70	58.00
B 15	15	---	---	---	---	80	86.00
C 7½	7½	100	76.00	---	---	---	---
C 10	10	100	77.00	---	---	---	---
C 15	15	125	96.00	100	86.00	---	---
C 20	20	---	---	120	96.00	100	96.00
C 25	25	---	---	---	---	100	108.00
C 30	30	---	---	---	---	100	119.00
D 20	20	125	151.00	---	---	---	---
D 25	25	---	---	140	150.00	---	---
D 30	30	---	---	140	165.00	---	---
D 40	40	---	---	140	171.00	---	---
D 50	50	---	---	140	180.00	---	---

CUTLER-HAMMER A.C. AND D.C. ACCESSORIES BULLETIN 10016—PRESSURE SWITCHES

For Small Pumps and Compressors

Modern appearance, construction and performance. Quick make and quick break. Double-break, silver-to-silver contacts. C-H eutectic thermal overload protection. Pressure connection for S.A.E. fitting (adapter for ¼-inch or ⅜-inch pipe connection furnished at no charge if specified). Switch and overload mechanism removable as a unit without disturbing contact mechanism.



Bulletin 10016

With Thermal Overload Relay—Double Pole

Cat. No.	—Max. HP Ratings—								Price Each
	—AC—				—DC—				
	Sing. Ph.		3-Ph.		Pressure Ratings—				
	Max.	Stand.	Max.	Stand.	Max.	Stand.	Differ.	Min.	
10016H63	110	230	115	230	80	20-40	28	15	\$8.15

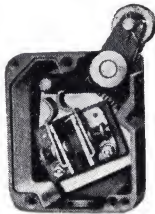
Without Thermal Overload Relay—Double Pole

10016H65	1	1	½	½	80	20-40 28 15	5.90
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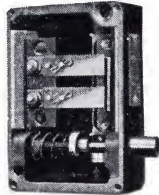
CUTLER-HAMMER A.C. AND D.C. ACCESSORIES

BULLETIN 10316—TYPES A, B AND C LIMIT SWITCHES

Also Used as Door Switches



Bulletin 10316
Type B



Bulletin 10316
Type A

For pilot circuit control of suitable automatic starters. Used as door switches in elevator service as well as limit switches in general service. For control circuits up to 600 volts.

Cat. No.	Manner of Operation	Type	Normal Contact Position	Lbs. Bxd.	Price Each
10316H55	Pushbutton	A	Open	4	\$8.25
10316H56	Pushbutton	A	Closed	4	8.25
10316H57	Roller	B	Open	4	8.25
10316H58	Roller	B	Closed	4	8.25
10316H59	Roller†	B	Open	4	8.25
10316H60	Roller‡	B	Closed	4	8.25
10316H61	Roller*	B	Closed	4	9.65
10316H62	Roller†	B	Closed	4	9.65
10316H63	Gravity	C	Open	4	12.40

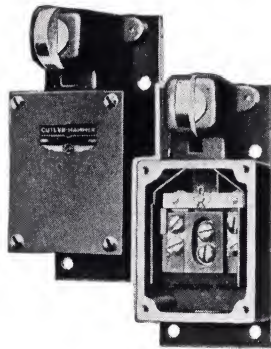
*With right-hand mounting bracket.

†With left-hand mounting bracket.

‡With long operating handle.

BULLETIN 10316—TYPE D LIMIT SWITCH

Ideal where a small, sturdy limit device is needed. For control circuits only—110 to 550 volts AC or 115 to 230 volts DC—inrush or peak current must not exceed 20 amperes. Can be used to start, stop or reverse motor at a certain point, or as a safety switch for overtravel protection. Silver-to-silver, double-break contacts for long life and best current-carrying qualities. Designed so front cover plate and back mounting plate can be interchanged giving two mounting positions, and roller can be turned 90 degrees giving two rolling positions—perpendicular and horizontal. Contacts are designed so a normally-open switch readily can be changed to a normally-closed switch and vice-versa.



Bulletin 10316H3

Cat. No.	Position of Contacts	Lbs. Bxd.	Price Each
10316H3	Normally Open	5	\$8.25
10316H4	Normally Closed	5	8.25
10316H10	Normally Open and Normally Closed	5	8.25

When ordering Limit Switches be sure to give correct catalog number and type of contacts desired—whether normally open, normally closed or one of each.

CUTLER-HAMMER A.C. AND D.C. ACCESSORIES

BULLETIN 10007 PRESSURE SWITCHES

Double Pole—Without Overload



Bulletin 10007H2

For pressures above atmospheric. For small motor or pilot circuit control. For air, gas, water and other fluids not injurious to rubber diaphragm. Quick make and break. Twin-break silver contacts. Adjustable pressure settings. View shows switch with unloader for air compressor service.

Without Unloader—Maximum Pressure 100 Lbs.

Adjustment A												
Cat. No.	Maximum Horsepower											
	DC			Sg. Ph. 2 or 3 Phase								
	115 V.	230 V.	550 V.	110 V.	220 V.	110 V.	220 V.	440 V.	550 V.	550 V.	550 V.	Price Each
10007H8-1*	1	2	3/4	1 1/2	3	2	5	3	3	3	\$11.05	

Adjustment B													Price Each
10007H8-2†	1	2	3/4	1 1/2	3	2	5	3	3	3	3	3	11.05

Without Unloader—Maximum Pressure 200 Lbs.

10007H10-1‡	1	2	3/4	1 1/2	3	2	5	3	3	3	3	3	11.05
10007H9‡•	1	2	3/4	1 1/2	3	2	5	3	3	3	3	3	13.90

*Set at 30-60 pounds at factory.

†Set at 20-40 pounds at factory.

‡Set at 160-200 pounds at factory.

•With unloader for air compressor service.

When ordering specify maximum pressure, settings and whether with or without unloader.

BULLETIN 10017—SMALL PRESSURE SWITCH

For Domestic Water System

Two pole; small size; Quick break; Heavy-duty silver-to-silver contacts; Metal working parts of stainless steel or brass; Base plate is electro-fused with tin to eliminate corrosion at pressure connection; diaphragm is non-aging, oil resistant, Fairprene. NEMA general purpose enclosure with "snap-on" cover.



Standard Setting 20-40

Min. Pressure to Close—5 lbs.
Max. Pressure to Open—80 lbs.
Min. Differential—15 lbs.
Max. Differential—25 lbs.

Pressure Fitting	With External Range Adjustment (25 to 55 Lbs.)		With Internal Range and Differential Adjustments	
	Cat. No.	Price	Cat. No.	Price
1/8" Pipe Female	H1	\$6.15	H2	\$5.35
1/4" Pipe Female	H3	6.15	H4	5.35
*1/4" Pipe Female	H5	6.15	H6	5.35
3/8" Pipe Female	H7	6.15	H8	5.35
1/2" Compression	H9	6.15	H10	5.35
3/4" Compression	H11	6.15	H12	5.35
1" Compression	H14	6.15	H15	5.35

*With pulsating plug.

GOODYEAR V-BELTS COMPASS V-STEEL V-BELT



GOODYEAR COMPASS V-STEEL V-BELT

In addition to a strength member of high tensile airplane type steel cables, this belt has an under-section that is notched with deep vents to (1) dissipate the heat of rapid flexing, (2) eliminate belt stiffness, permitting use on smaller pulleys, (3) give flat flexibility with maximum wedge-grip and minimum frictional loss, (4) make a cooler running, longer wearing, super-efficient belt.

Made both for normal service in standard construction and in ORS construction for drives where oil, heat or static electricity are problems.

STEEL CABLE V-BELTS



GOODYEAR STEEL CABLE V-BELT

With a far greater strength factor—high heat resistance—uniform and practically zero stretch—this Steel Cable V-Belt offers many advantages. It pulls heavier loads—assures longer life on present drives or equal efficiency with fewer belts—permits slower or faster belt speeds.

The steel cable V-belt should not be confused with the so-called “wire” V-belts which have been tried and found wanting. The cable is the latest development of the steel industry. It possesses tremendous strength and has a higher flex-life than cotton or rayon cords.

Steel Cable V-Belts are available in a standard range of sizes.

E-C CORD MULTI-V BELTS



Goodyear E-C Cord Multi-V Belts, are famous for long life, continued matchability and low stretch. They incorporate the heavy endless cord construction which combines strength with extreme flexibility and low stretch.

The endless cord, load-carrying layer, cushioned in insulating gum, is placed in the neutral section of the belt where it is under neither the tension nor compression imposed by flexing. As a result, the internal friction, which occurs in a multiple-ply construction, is eliminated and the full strength of the cords carries the load. The belt has an extremely long flexing life and a high resistance to fatigue or breakdown of the structure.

GOODYEAR V-BELTS MULTIPLE V-BELT SIZES



“A” Section — Nominal Dimensions: Top width $\frac{1}{2}$ ", thickness $\frac{1}{16}$ ", angle 42° .

(Belts 120" and longer have fabric in compression section.)

Serial	Nominal Pitch Length	Serial	Nominal Pitch Length	Serial	Nominal Pitch Length
A26	27.0"	A53	54.0"	A78	79.0"
A31	32.0"	A55	56.0"	A80	81.0"
A33	34.0"	A60	61.0"	A85	86.0"
A35	36.0"	A62	63.0"	A90	91.0"
A38	39.0"	A64	65.0"	A96	97.0"
A42	43.0"	A66	67.0"	A105	106.0"
A46	47.0"	A68	69.0"	A112	113.0"
A48	49.0"	A71	72.0"	A120	121.0"
A51	52.0"	A75	76.0"	A128	129.0"

“B” Section — Nominal Dimensions: Top width $\frac{3}{16}$ ", thickness $\frac{1}{16}$ ", angle 42° .

(Belts under 120" in length have no fabric in compression section.)



Serial	Nominal Pitch Length	Serial	Nominal Pitch Length	Serial	Nominal Pitch Length
B35	36.5"	B68	69.5"	B112	113.5"
B38	39.5"	B71	72.5"	B120	121.5"
B42	43.5"	B75	76.5"	B128	129.5"
B46	47.5"	B78	79.5"	B144	145.5"
B48	49.5"	B81	82.5"	B158	159.5"
B51	52.5"	B83	84.5"	B173	174.5"
B53	54.5"	B85	86.5"	B180	181.5"
B55	56.5"	B90	91.5"	B195	196.5"
B60	61.5"	B93	94.5"	B210	211.5"
B62	63.5"	B97	98.5"	B240	240.0"
B64	65.5"	B100	101.0"	B270	270.0"
B65	66.5"	B103	104.5"	B300	300.0"
B66	67.5"	B105	106.5"		

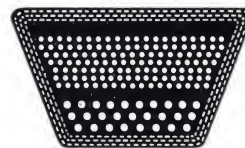


“C” Section—Nominal Dimensions: Top width $\frac{7}{8}$ ", thickness $\frac{1}{16}$ ", angle 42° .

(Belts under 120" in length have no fabric in compression section.)

Serial	Nominal Pitch Length	Serial	Nominal Pitch Length	Serial	Nominal Pitch Length
C51	53.0"	C105	107.0"	C180	182.0"
C60	62.0"	C112	114.0"	C195	197.0"
C68	70.0"	C120	122.0"	C210	212.0"
C75	77.0"	C128	130.0"	C240	240.0"
C81	83.0"	C144	146.0"	C270	270.0"
C85	87.0"	C158	160.0"	C300	300.0"
C90	92.0"	C162	164.0"	C330	330.0"
C96	98.0"	C173	175.0"	C360	360.0"

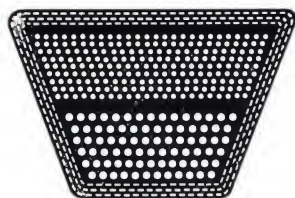
“D” Section — Nominal Dimensions: Top width $1\frac{1}{4}$ ", thickness $\frac{3}{16}$ ", angle 42° .



Serial	Nominal Pitch Length	Serial	Nominal Pitch Length	Serial	Nominal Pitch Length
D120	122.5"	D173	175.5"	D270	270.0"
D128	130.5"	D180	182.5"	D300	300.0"
D144	146.5"	D195	197.5"	D330	330.0"
D158	160.5"	D210	212.5"	D360	360.0"
D162	164.5"	D240	240.0"		

In “D” cross section, lengths longer than 360" may be supplied in increments of 60" only, up to 600" maximum.

GOODYEAR V-BELTS MULTIPLE V-BELT SIZES (Continued)



"E" Section—Nominal Dimensions: Top width $1\frac{1}{2}$ ", thickness 1", angle 42° .

Serial	Nominal Pitch Length	Serial	Nominal Pitch Length	Serial	Nominal Pitch Length
E180	183.5"	E240	240.0"	E330	330.0"
E195	198.5"	E270	270.0"	E360	360.0"
E210	213.5"	E300	300.0"		

In "E" cross section, lengths longer than 360" may be supplied in increments of 60" only, up to 600" maximum.

FRACTIONAL HORSEPOWER V-BELTS

Goodyear offers a complete standardized line of fractional horsepower V-belts for miscellaneous light machinery drives of all types. These belts are not intended for use in multiple. They are available in three different standard cross-sections and in a variety of standard lengths, covering the entire range required for this class of service.

F.H.P. belts incorporate the endless cord construction. In these low-stretch, high-strength belts, the load is carried by a layer of endless cord located at the point in the belt where there is the least distortion from flexing. This construction eliminates the internal friction encountered in belts having a multiple ply construction.

GOODYEAR REPLACEMENT BELTS

In addition to the standard Fractional Horsepower V-Belt line, intended primarily for original equipment applications, Goodyear offers a complete line of replacement belts for miscellaneous light machinery drives such as refrigerators, washing machines, water pumps, stokers, oil burners, wood-working machines, beer pumps, etc.

The line includes most of the standard Fractional Horsepower sizes, as well as special sizes required for replacement on particular applications.

GOODYEAR AUTOMOTIVE FAN BELTS

The sturdy construction of Goodyear V-fan belts enables them to withstand the severest fan belt service. Their cord construction and the manner in which these belts are made, insures extreme flexibility, remarkable long life and trouble-free service.

Each Goodyear V-belt has its own cardboard envelope. Goodyear fan belts give complete automotive replacement coverage with a minimum of sizes.

OPEN-END V-BELTING

Open-end V-belting has recently been used in the V-belt field because of its ability to quickly rebelt a drive without dismantling the pulleys — thus saving valuable production time.

It should not be used except for emergency breakdowns or on drives where endless V-belts cannot be installed. There is a complete line of standard types and sizes.

Further information furnished on request.

GOODYEAR FRACTIONAL HORSEPOWER V-BELTS

FO Section

13/32" top width, 7/32" thick, 42° angle

Serial No.	Nominal Outside Length	Serial No.	Nominal Outside Length	Serial No.	Nominal Outside Length
FO11	11"	FO29	29"	FO44	44"
FO13	13"	FO30	30"	FO45	45"
FO15	15"	FO31	31"	FO46	46"
FO17	17"	FO32	32"	FO47	47"
FO18	18"	FO33	33"	FO48	48"
FO19	19"	FO34	34"	FO50	50"
FO20	20"	FO34 1/2	34 1/2"	FO52	52"
FO21	21"	FO35	35"	FO54	54"
FO22	22"	FO35 1/2	35 1/2"	FO56	56"
FO23	23"	FO36	36"	FO58	58"
FO24	24"	FO37	37"	FO60	60"
FO25	25"	FO38	38"	FO61	61"
FO25 1/2	25 1/2"	FO39	39"	FO62	62"
FO26	26"	FO40	40"	FO64	64"
FO27	27"	FO41	47"	FO67 1/2	67 1/2"
FO28	28"	FO42	42"	FO73	73"
FO28 1/2	28 1/2"	FO43	43"		

FA Section

Top width 17/32"; thickness, 9/32"; angle, 42°

FA20	20"	FA45	45"	FA69	69"
FA21	21"	FA46	46"	FA70	70"
FA22	22"	FA47	47"	FA71	71"
FA23	23"	FA48	48"	FA72	72"
FA24	24"	FA49	49"	FA73	73"
FA25	25"	FA50	50"	FA74	74"
FA26	26"	FA51	51"	FA75	75"
FA27	27"	FA52	52"	FA76	76"
FA28	28"	FA53	53"	FA77	77"
FA29	29"	FA54	54"	FA78	78"
FA30	30"	FA55	55"	FA79	79"
FA31	31"	FA56	56"	FA80	80"
FA32	32"	FA57	57"	FA82	82"
FA33	33"	FA58	58"	FA83	83"
FA34	34"	FA59	59"	FA84	84"
FA35	35"	FA60	60"	FA86	86"
FA36	36"	FA61	61"	FA87	87"
FA37	37"	FA62	62"	FA88	88"
FA38	38"	FA63	63"	FA90	90"
FA39	39"	FA64	64"	FA92	92"
FA40	40"	FA65	65"	FA94	94"
FA41	41"	FA66	66"	FA96	96"
FA42	42"	FA67	67"	FA98	98"
FA43	43"	FA68	68"	FA100	100"
FA44	44"				

FB Section

Top width, 11/16"; thickness, 3/8"; angle, 42°

FB25	25"	FB48	48"	FB70	70"
FB26	26"	FB49	49"	FB71	71"
FB27	27"	FB50	50"	FB72	72"
FB28	28"	FB51	51"	FB73	73"
FB29	29"	FB52	52"	FB74	74"
FB30	30"	FB53	53"	FB75	75"
FB31	31"	FB54	54"	FB76	76"
FB32	32"	FB55	55"	FB77	77"
FB33	33"	FB56	56"	FB78	78"
FB34	34"	FB57	57"	FB80	80"
FB35	35"	FB58	58"	FB82	82"
FB36	36"	FB59	59"	FB83	83"
FB37	37"	FB60	60"	FB84	84"
FB38	38"	FB61	61"	FB86	86"
FB39	39"	FB62	62"	FB87	87"
FB40	40"	FB63	63"	FB88	88"
FB41	41"	FB64	64"	FB90	90"
FB42	42"	FB65	65"	FB92	92"
FB43	43"	FB66	66"	FB94	94"
FB44	44"	FB67	67"	FB96	96"
FB45	45"	FB68	68"	FB98	98"
FB46	46"	FB69	69"	FB100	100"
FB47	47"				

CONGRESS DIAMOND BORED DRIVES GROOVED PULLEYS



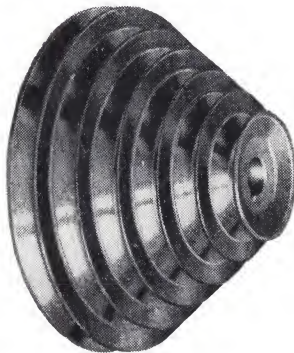
"A" TYPE
For "A" Belts
1 1/2" x 11/32"
Available in 1 1/2-inch
to 16-inch outside diame-
ters.

"B" TYPE
For "B" Belts
2 1/32" x 7/16"
Available in 2 1/2-inch
to 14-inch diameters.
Balanced; individually
boxed; attractive finish.
Prices on request.

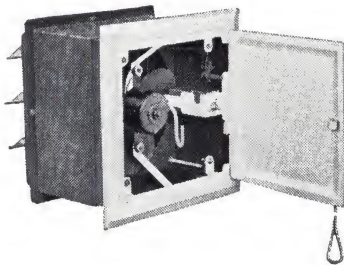
"V" STEP CONE PULLEYS For "A" Belts, 1/2" x 11/32"

Sizes Available	Outside
No. Steps	Diameters
2	3-2
3	4-3-2
3	5-4-3
4	5-4-3-2
4	6-5-4-3
5	6-5-4-3-2
5	7-6-5-4-3
6	7-6-5-4-3-2
6	8-7-6-5-4-3

Center distance re-
mains constant when
changing belts —
eliminates belt adjust-
ment after each speed
change.



SIGNAL WALL BOX VENT FAN



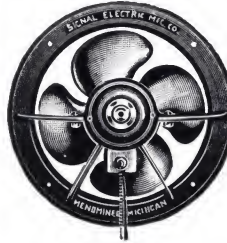
Outside shutter is cast aluminum with automatic
lever operated shutters. The totally enclosed motor
is rubber mounted and can be disconnected or re-
moved for cleaning. Motor switch and shutters
are controlled by opening and closing of the door.
Two types adjustable to wall thicknesses — 6 to
11 1/2 inches or 13 to 24 inches. 110-120 volts A.C.;
60 cycles; watt input, 40; C.F.M. in free air, 650;
R.P.M., 1400.

Inside baked white enamel, shutters chrome,
balance brown.

Cat. No.	Fan In.	Adjustable to Wall Thickness, In.	Shpg. Wt. Lbs.	Price Each
V-50A	10	6 to 11 1/2	22 3/4	\$31.50
V-52A	10	13 to 24	45	35.18

Above prices include Federal Excise Tax.

SIGNAL VENT AND EXHAUST FANS RING TYPE VENT FAN



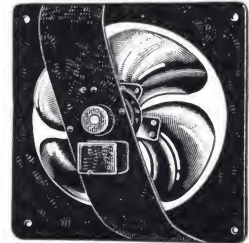
For installation where
weight must be considered
this vent fan is recommend-
ed. Can be mounted on wall
board. Cast iron mounting
ring; quiet type 10-inch
chrome plated fan blade and
on-and-off switch.

Cat. No.	Voltage	C.F.M.	Watts	Shpg. Wt. Lbs.	Price Each
V-105	110 A.C.	600	50	10	\$19.95
V-106	115 Uni.	680	65	10	25.20

Above prices include Federal Excise Tax.

CHALLENGER VENT FAN

These streamlined ven-
tilating fans are value-
plus. They are modernly
different, efficient and de-
pendable, and outstand-
ingly low in cost. Char-
acteristics usually identi-
fied only with those in
much higher price brack-
ets are found on these
fans. The square frame
of heavy gauge sheet steel
is easy to mount and holds the motor securely.
Motor is totally enclosed and equipped with ad-
justable conduit box. Motor and frame are black
wrinkle finish and the fan blade is chrome plated.
Lends itself well to wall, window and transom in-
stallations. Operates horizontally or vertically.



Cat. No.	Size Inches	Voltage and Cycles	C.F.M. in Free Air	Watts	Shpg. Wt. Lbs.	Price Each
V-510	10	110 A.C. 60	650	40	9	\$12.60
V-512	12	110 A.C. 60	900	50	15	16.80
V-516	16	110 A.C. 60	1400	90	26	25.20

Above prices include Federal Excise Tax.

THREE-SPEED CONTROLLERS



For SIGNAL bucket and flat
blade vent fans. Reduces high
speed approximately 20 per cent.
Two types for surface or flush
mounting. Black wrinkle finish.

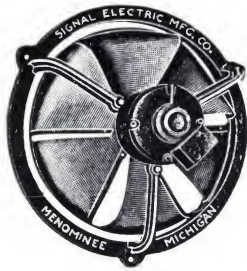
For Vent Fans

Cat. No.	For Fan No.	Shpg. Wt. Lbs.	Price Each
SXS-13	V-510	3	\$5.70
SXF-13	V-510	3	5.70
SXS-14	V-512	3	5.70
SXF-14	V-512	3	5.70
SXS-15	V-516	3	5.70
SXF-15	V-516	3	5.70
SXS-26	V-105	3	5.70
SRS-7	V-106	3	6.25

For Exhaust Fans

Cat. No.	For Fan No.	Shpg. Wt. Lbs.	Price Each
SXS-3	V-312	3	\$5.70
SXF-3	V-312	3	5.70
SRS-3	V-412	3	6.25
SRF-3	V-412	3	6.25
SXS-1	V-316	4	6.60
SXF-1	V-316	4	6.60
S-31	V-416	3	8.50
SXS-4	V-318	4	6.60
SXF-4	V-318	4	6.60
S-32	V-418	3	8.50

SIGNAL VENT AND EXHAUST FANS BUCKET BLADE BALL BEARING EXHAUST FAN



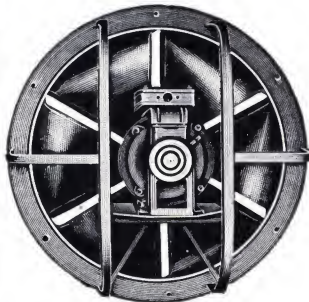
For commercial installations. Motor is shaded pole, induction type, fully enclosed, equipped with high grade ball bearings. Frame is cast reinforced iron. Motor cast, adjustable conduit box. Black wrinkle finish.

Size In.	C.F.M.	110 V. A.C.			Price Each	115 V. D.C.			Price Each
		Cat. No.	R.P.M.			Cat. No.	R.P.M.		
12	825	V312	1000		\$31.50	V412	1000		\$38.85
16	1500	V316	1150		48.30	V416	1280		58.80
18	2200	V318	1100		57.75	V418	1150		65.10

Above prices include Federal Excise Tax.

BUCKET BLADE BALL BEARING EXHAUST FAN

Powered by a heavy duty ball bearing, $\frac{1}{4}$ H.P. capacitor motor, this 24-inch, 2-speed fan is rubber mounted and will operate in any position because of the special thrust-type ball bearings. Finish of fan is black lacquer with motor and mounting ring black wrinkle. Snap switch included with single-phase fans.



Also available for three-phase and D.C.

A.C. — 2 Speed — One Phase — Ball Bearing Rubber Mounted

Cat. No.	Speed R.P.M.	C.F.M.	Volts	Cy.	Shpg. Wt. Lbs.	Price Each
V-124	830-640	4000-3400	110	60	135	\$174.30
V-124X	710-575	3400-2800	110	25	135	181.92
V-124Z	830-640	4000-3100	220	60	135	176.40

V-124 110/220 volt winding — On 220 speed is 830 R.P.M.
V-124X 110/220 volt winding — On 220 speed is 710 R.P.M.
V-124Z 220/440 volt winding — On 440 speed is 830 R.P.M.

Above prices include Federal Excise Tax.

SIGNAL AUTOMATIC SHUTTERS

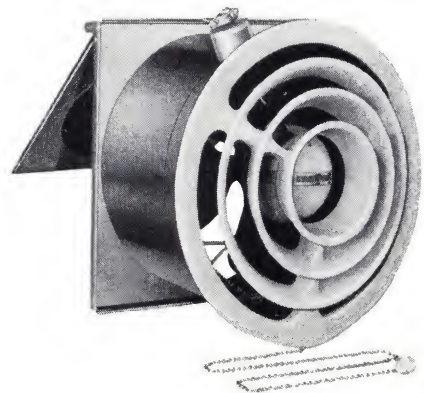


Designed for use with Signal Exhaust and Vent fans. Provide protection to the fan opening when fan is not operating. Frame is cast iron gray finish and steel shutter vanes are to match. The vanes, fastened to a tie-rod, operate together. Shutters operate automatically.

Cat. No.	Size In.	Shpg. Wt. Lbs.	Price Each	Cat. No.	Size In.	Shpg. Wt. Lbs.	Price Each
L-10	10	7 $\frac{1}{2}$	\$6.20	L-18A	18	23	\$13.25
L-12A	12	11	7.10	L-24	24	35	20.00
L-16A	16	18	9.40	-----	-----	-----	-----

WESTINGHOUSE ELECTRIC FANS

No. 10PHV POWERAIRE HOME VENTILATOR



This modern streamlined Home Ventilator is easily installed in practically any wall thickness. Fan has white snap-on Air Injector grille, which greatly increases quietness and exhaust efficiency. Insulated outside door automatically opens when fan is operating. Single pull-chain control. Economical to operate. Operates on a-c only.

Cat. No.	Watts	Volts	Std. Pkg.	Wt. Lbs. Each	Price Each
10PHV	54	115	1	18	\$34.95

No. 10PHV VENTILATOR DISPLAY UNIT

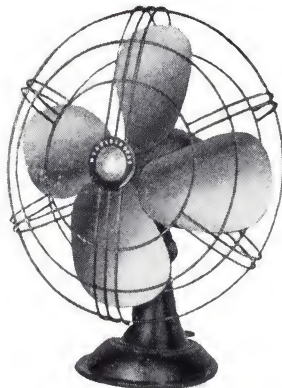


Striking permanent masonite display unit puts the Westinghouse Poweraire Home Ventilator in actual operation. In smart coloring, this eye-catching, traffic-stopping display has selling messages on front and back to point out all important features. Prospect gets clear picture of completely installed unit, and a chance to operate it before he buys.

Price, No. 10PHV Ventilator Display Unit...\$10.00

WESTINGHOUSE ELECTRIC FANS

STANDARD OSCILLATING DESK-BRACKET AND PEDESTAL FANS



16SD2

16SDP
automatic clutch, oscillating mechanism. 75-degree oscillation arc, oscillation center adjustable. Finished in crystal-grey, baked-on enamel. Fan is easily adjustable for wall mounting.

Pedestal Model: 2 speeds; column adjustable anywhere between 46 and 66 inches from floor to motor shaft. Upper pedestal column chrome-plated; lower column crystal-grey enamel.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
16SD2	16	95	115	1	20		\$39.95
16SDP	16	95	115	1	48		59.95

DEBONAIRE FLOOR CIRCULATOR



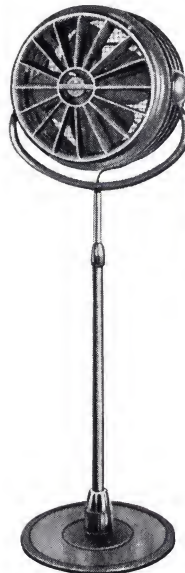
Debonaire fan with the Air-Jet principle. Because of design principles, including jet action with Air-Injector rings, the Debonaire will deliver more air, without annoying drafts. Specially constructed, deep-pitched Micarta blades, super-safe and ultra-quiet. The air-jet principle increases the air delivery to 1,700 cubic feet per minute. Lightweight, exceptional strength and durability. For floor use anywhere. No hum, vibration or radio interference. Draftless, will not disturb papers on desk.

Westinghouse brushless, four-pole, induction-type motor with die cast, squirrel cage rotor. Single-speed "on" and "off" switch. Three molded plastic feet mounted on Air-Injector spacing straps. Finished in rich maroon, baked-on enamel with chromium trimming. Overall dimensions: 13½ inches diameter, 13 inches high. Net weight, 15 pounds. 8-foot, heavy-duty cord with soft rubber attachment plug.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
10DA	10	55	115	1	18		\$29.95

WESTINGHOUSE ELECTRIC FANS

WHIRLAIRE AIR CIRCULATORS



No. 16WA
With Wire Mesh Grille

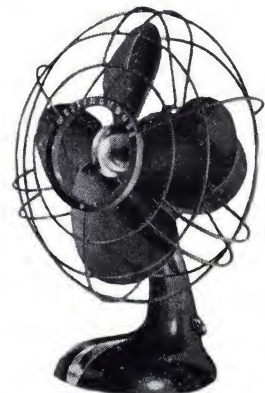
No. 16WAP
With Air Jet Vanes

Distinctive modern styling — platinum blue baked-on enamel finish with chrome trimming. Deep-pitched ultra-quiet, super-safe blades of exclusive Westinghouse Micarta. Completely adjustable tilt from below horizontal to vertical. Powerful and economical capacitor-type induction motor, no radio interference. Two-speed, snap-type switch conveniently located at bottom of rear grille. Wire mesh grilles and air-injector rings with Micarta blades provide the ultimate in safety. Exclusive Westinghouse Multiple Air-Injector Rings increase air capacity by 35 per cent. Exclusive Westinghouse Air Jet Vanes (available as an accessory) increase air penetration over 50 per cent. Complete with 10-foot rubber cord with standard attachment plug.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
16WA	16	110	115	1	50		\$69.95
16WAP	16	110	115	1	86		79.95
20WA	20	240	115	1	91		104.95
20WAP	20	240	115	1	145		114.95
16AJV	Air Jet Vanes (for 16-inch fan)						9.95
20AJV	Air Jet Vanes (for 20-inch fan)						13.95

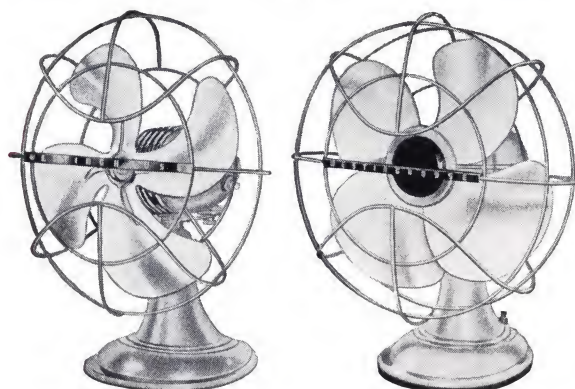
POWERAIRE OSCILLATING DESK-BRACKET FAN

The Westinghouse Poweraire Oscillating Desk-bracket fan, streamlined for super air flow. It has ultra-quiet Micarta blades enclosed in reinforced one-piece, welded steel guard. Fully enclosed, automatic clutch oscillating mechanism with 3-speed (2-speed on 10"), snap-type switch. Fan has 75 or 45-degree oscillation arc, oscillating center adjustable. Fan is easily adjustable for wall mounting. Operates on a-c only.



Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
10PA2	10	52	115	1	10		\$24.95
12PA2	12	85	115	1	19		39.95
16PA2	16	75	115	1	24		49.95
10PAP	10	52	115	1	32		34.95

WESTINGHOUSE ELECTRIC FANS LIVELYAIRE OSCILLATING DESK-BRACKET FANS



No. 10LA2

No. 12LA2

Increased air delivery. Specially designed Powersphere polished aluminum blades. No. 10LA has "on" and "off" switch; No. 12LA2 2-speed, snap-type switch. Die-cast, zinc alloy base has felt padding. One-piece aluminum blade. Oscillating arc is adjustable from 0° to 75°. Fan may be locked for non-oscillating operation. Guard wires welded together into a single unit. Four separate wire ends extend into housing and are locked into place. Guard need not be removed to change blades. Fan is easily adjustable for wall mounting. Beige, baked-on enamel finish.

Westinghouse brushless, induction-type motor, with die-cast, squirrel-cage rotor. Bearings are self-aligning, porous sleeve-type.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
10LA2	10	50	115	1	7		\$13.95
12LA2	12	52	115	1	12		22.95

LEADER NON-OSCILLATING DESK-BRACKET FAN



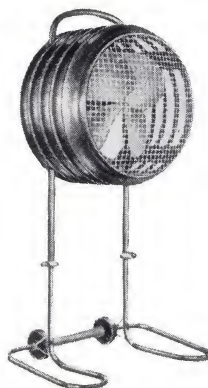
Handsome, modern styling — streamlined for super air flow. Platinum blue, baked-on enamel finish. Polished aluminum Powersphere blades. Reinforced, one-piece welded steel wire guard. Uses powerful Westinghouse induction-type motor. No radio interference. Easily adjustable for wall mounting.

Die-cast, zinc alloy base has felt padding around entire outer edge. Knurled rotary "on" and "off" switch located in the lower motor shell well behind the guard.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
10LD	10	50	115	1	7		\$9.95

WESTINGHOUSE ELECTRIC FANS

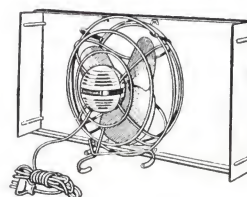
No. 16MA2 MOBILAIRE FAN



The fan with the Air-Jet principle. Delivers 3,200 cfm. can change the air in a 4 or 5-room apartment or home every two minutes. This fan requires no installation. Can be used with any window of any type or size. Deep-pitched, ultra-quiet Micarta blades. Baked enamel finish trimmed in chrome. Fan has 8-foot rubber cord with standard attachment plug. Operates on a-c only.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
16MA2	16	110	115	1	45		\$69.95

No. 10PWV POWERAIRE WINDOW VENTILATOR



Westinghouse Poweraire Window Ventilator with the double-duty, snap-in fan. Window panel adjustable for window widths from 24 inches to 36½ inches. Can completely change air in average kitchen every two minutes. When not in use, window sash closes in regular way. Fan easily slips out of window panel for Lively Air anywhere. As table fan, provides cooling air circulation at the rate of 900 cubic feet per minute. Convenient snap-switch located in cord. Ultra-quiet, super-safe blades of Westinghouse Micarta. Easy to clean — economical to operate.

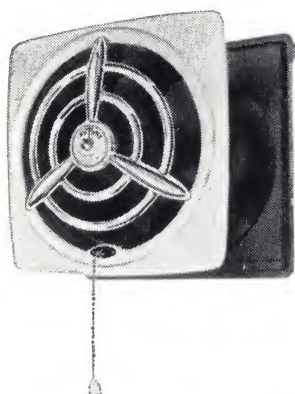
Fan guard and clips finished in chrome with other parts of panel and fan finished in baked-on enamel, harmonizing beige. 10-foot gleaming ivory plastic-covered cord with soft rubber attachment plug.

Cat. No.	Blade Size In.	Watts	Volts	Std. Pkg.	Shpg. Lbs.	Wt. Lbs.	Price Each
10PWV	10	50	115	1	15		\$29.95

IF YOU DO NOT FIND
THE ELECTRICAL ITEM
YOU REQUIRE, PLEASE
ADVISE AS WE ARE
ANXIOUS TO BE OF ALL
POSSIBLE SERVICE

NuTONE VENTILATING FANS

10-INCH DELUXE WALL VENTILATING FAN



Easy to clean — attractive style — true dependability — quiet but powerful. Screw driver is the only tool needed to install. Three screws lock telescoping sleeves in correct position. Motor unconditionally guaranteed for 5 years. Motor and blade removable for cleaning of inner sleeve.

Standard finish — white baked enamel wall plate with quickly removable grille in chrome. Wall plate

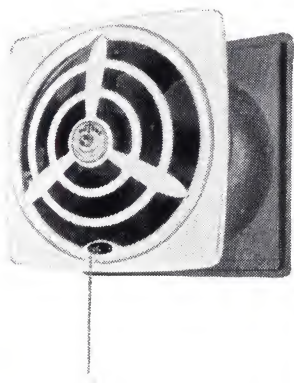
and grille both plated in chrome, at \$3.00 extra.

- NF-10 — Fits brick walls 7 to 12 1/8 inches thick.*
 Fits brick walls 5 to 10 1/8 inches thick.‡
 Fits wood walls 5 to 10 1/8 inches thick.*
 NF-10L Fits brick walls 11 to 16 1/8 inches thick.*
 Fits brick walls 9 to 14 1/8 inches thick.‡
 Fits wood walls 9 to 14 1/8 inches thick.*

Model No.	Blade Size	Dimensions, Inches—			Shpg. Wt. Lbs.	Price Each
		Wall Plate	Outside Panel	Wall Opening		
NF-10	10	13x13	13 3/4 x 18 3/4	11 1/2	19	\$32.95
NF-10L	10	13x13	13 3/4 x 13 3/4	11 1/2	21	32.95
NF-10C			Chrome			35.95
NF-10LC			Chrome			35.95

9-INCH WALL VENTILATING FAN

Quality construction—trouble free operation—powerful air delivery. Low installation cost. Quickly removable grille for easy cleaning. Wall plate attaches permanently, covers up all flaws in plaster work behind it. Equipped with 2 knockouts for wiring either from above or below. Wind tunnel tested for correct air delivery. Wall plate and removable grille in white baked enamel only.



- NF-9 — Fits brick walls 7 to 12 1/8 inches thick.*
 Fits brick walls 5 to 10 1/8 inches thick.‡
 Fits wood walls 5 to 10 1/8 inches thick.*
 NF-9L Fits brick walls 11 to 16 1/8 inches thick.*
 Fits brick walls 9 to 14 1/8 inches thick.‡
 Fits wood walls 9 to 14 1/8 inches thick.*

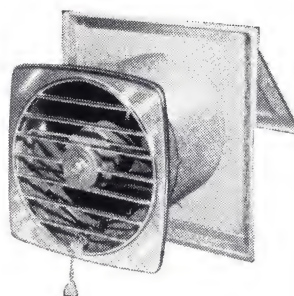
Model No.	Blade Size	Dimensions, Inches—			Shpg. Wt. Lbs.	Price Each
		Wall Plate	Outside Panel	Wall Opening		
NF-9	9	13x13	13 3/4 x 13 3/4	11 1/2	19	\$29.95
NF-9L	9	13x13	13 3/4 x 13 3/4	11 1/2	21	29.95

*When outside panel is set back 2 inches.

‡When outside panel is set flush with face brick.

NuTONE VENTILATING FANS

8-INCH WALL VENTILATING FAN



Easy installation — screw driver is the only tool needed to install. Motor is unconditionally guaranteed for one year. Motor and blade removable for cleaning of inner sleeve. Motor assembly is rubber mounted.

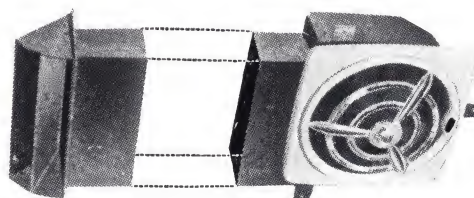
White baked enamel grille. Brilliant mirror finish grille \$3.00 extra. Compact grille

10 1/2 inches square for easy installation in close clearances.

- NF-8 — Fits brick walls 7 to 12 1/8 inches thick.*
 Fits brick walls 5 to 10 1/8 inches thick.‡
 Fits wood walls 5 to 10 1/8 inches thick.*
 NF-8L Fits brick walls 11 to 16 1/8 inches thick.*
 Fits brick walls 9 to 14 1/8 inches thick.‡
 Fits wood walls 9 to 14 1/8 inches thick.*

Model No.	Blade Size	Dimensions, Inches—			Shpg. Wt. Lbs.	Price Each
		Wall Plate	Outside Panel	Wall Opening		
NF-8	8	10 1/2 x 10 1/2	13 3/4 x 13 3/4	9 1/2	15	\$26.50
NF-8L	8	10 1/2 x 10 1/2	13 3/4 x 13 3/4	9 1/2	16	26.50
NF-8C			Chrome			29.50
NF-8LC			Chrome			29.50

10-INCH CEILING VENTILATING FAN



10-inch Pressure type fan especially built for this ceiling ventilator to provide maximum air delivery. Fan housing only 3 3/8 inches deep—to fit standard 2x4 inch construction. Equipped with brackets for easy attachment to ceiling timbers. Adapted for standard 3 1/4 x 12-inch furnace duct. Gravity anti-back-draught shutter removable from inside. Outside wall hood equipped with anti-back-draught louvre. Separate elbow available for vertical outlet installation. Motor specially designed for vertical operation. Special multi-speed switch furnished at \$5.95 extra.

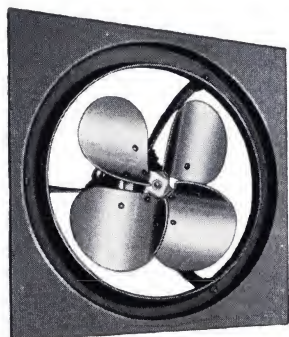
White baked enamel ceiling plate, with removable grille plated with chrome. Ceiling plate and removable grille both plated in chrome at \$3.00 extra. Model NCF-10 will be shipped with hood unless otherwise specified.

Model No.	Blade Size	Ceiling Plate	Outside Hood	Price Each
NFC-10	10	13x13	14 3/2 x 5 9/16	\$36.95
NCF-10C		Chrome		39.95

*When outside panel is set back 2 inches.

‡When outside panel is set flush with face brick.

HUNTER EXHAUST FANS SQUARE MOUNTING FRAME



Features include: Capacitor type motor; Hunter design deep orifice; square, easy mounting frame; fully enclosed motor; heavy-duty bearings; three supporting arms mounted in rubber; switch furnished with 2-speed fans; durable green finish; equipped with wires for connection; for vertical or horizontal operation.

Two-Speed, Ball-Bearing Exhaust Fans

115 Volts 60 Cycles, Single Phase

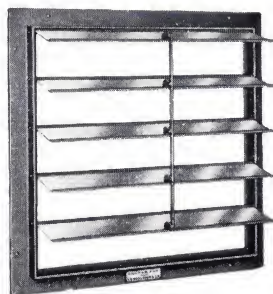
Cat. No.	Size Fan	H.P.	Watts	High Speed Amps.	RPM	CFM	Price Each
1212	12"	1/50	48	.52	1450	1100	\$47.75
1216	16"	1/25	60	.75	1040	1650	57.75

Single Speed, Medium Heavy Duty Sleeve-Bearing Exhaust Fan, 115 Volt, 60 Cycle, Single Phase

8118*	18"	1/2	150	1.5	1100	2800	89.50
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*Sleeve-bearing types are made to operate with motor shaft in horizontal position only.

HUNTER AUTOMATIC SHUTTERS

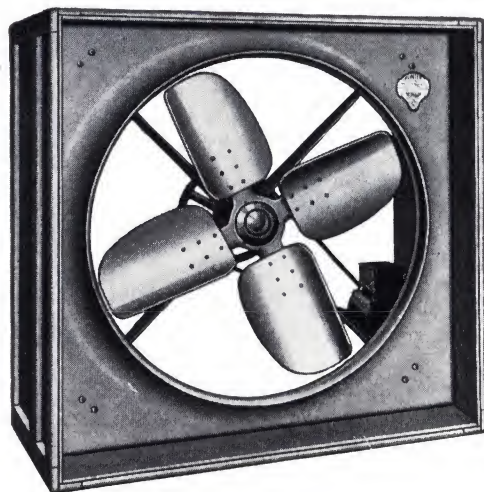


For Fan Cat. No.	Shutter Size, Inches (Daylight Opening)*	Outside Dimens. in Inches	Wt. Lbs. Packed	Price Each
1212	12 12 x 12	14 1/2 x 14 1/2	7	\$14.00
1216	16 16 x 16	19 x 19	11	18.50
8118	18 18 x 18	21 x 21	13	21.00

*Add 3 inches for overall dimensions.

Prices Subject to Federal Excise Tax

HUNTER ZEPHAIR COOLING UNITS BELT DRIVEN EXHAUST FANS



Mechanical Details for All Sizes

1. V-Belt Drive—insures long life—quiet operation.
2. Adequate instructions—most efficient methods of installation.
3. Century ball bearing motors—insure many years of trouble-free service.
4. Thermal overload protection prevents burned out motors in case of low voltage or overload.
5. Zephair heavy gauge, die-formed steel blades give uniform air velocity over entire blade area.
6. One-piece streamlined orifice—design increases air delivery—reduces power consumption.
7. Blade hub—cast iron, accurately machined to fan shaft.
8. Entire blade assembly statically balanced, assuring vibrationless running.
9. Blade shaft mounted on ball bearings—absorb thrust load—permit operation in any position.
10. Mounting arms offer minimum obstruction to air flow—absorb vibration.
11. Rugged construction and extra powered motor assure continuous uninterrupted service.
12. Protective Service Guarantee. Fan Unit—5 years. Motor—1 year.

Shipping Crate designed for use in installation — minimizes installation expense — crate easily removable for special application.

All fans have Underwriters' Laboratory label.

Single Speed Units

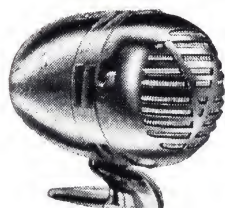
115 Volts, 60 Cycles

Cat. No.	Size In.	C.F.M.	H.P.	R.P.M.	Overall Dimens.	Price
50-AXB	24	5,100	1/4	570	34x34x18	\$128.00
75-BXB	30	7,500	1/4	420	42x42x19	149.50
10-DXB	36	11,400	1/3	360	48x48x20	179.50
14-FXB	42	16,000	1/2	340	54x54x25	224.00
18-HXB	48	20,000	1/2	295	60x60x25	258.00
18-HXB-3	48	22,500	3/4	330	60x60x25	278.00

42 and 48-inch sizes also available for 230 volts, 60 cycle, single phase.

FEDERAL VEHICLE SIRENS

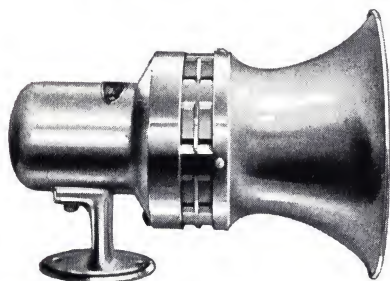
MODELS O AND V SIRENS



Low priced high quality sirens for volunteer firemen, deputies, coroners, etc. Models O and VG are alike except in finish. Model VL has powerful flashing red beam light similar in appearance to Model W. All models 4 7/8 inches diameter. Choice of 6 or 12 volts.

Model	Finish	Dimens., In.		Net Wt. Lbs.	Price Each
		Length	Height		
O	Lacquer	7	5 3/4	5 1/2	\$21.00
VG	Chrome	7	5 3/4	5 1/2	23.00
VL	Chrome	8 1/2	6	5 1/2	32.00

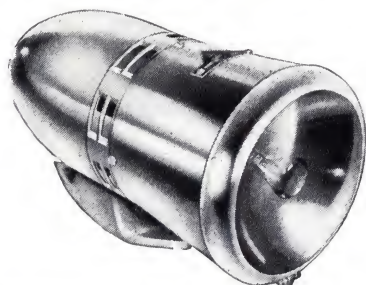
MODEL E SIRENS



The most famous vehicle siren. Conservative in price and appearance, but packed with quality and performance. Available with projector or flat grill. Rotor diameter 5 1/2 inches. Choice of 6 or 12 volts.

Model	Description	Dimens., Inches		Price Each
		Length	Height	
EG	Grill	8 1/2	7 1/2	\$43.00
EP	Projector	12 1/2	8 3/4	45.00

MODEL W SIRENS



Similar in capacity and performance to the Type E sirens, the "W" models are streamlined as well as chrome plated. Choice of grill or light. 6 or 12 volts. Type WLR has a light in rear as well as front. WF mounts in center of Ford radiator grill.

Model	Description	Dimens., Inches		Price Each
		Length	Height	
WG	Grill	10	7	\$50.00
WL	Light	13 1/2	8	60.00
WF	Ford Model	11 1/2	9	60.00
WLR	Rear Light	15	8	70.00

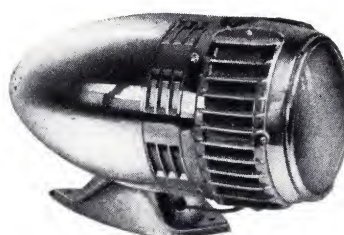
MODEL X SIRENS

Like the Model W, but constructed with a cast aluminum weatherproof manifold. The only truly weatherproof siren. With or without light. Choice of 6 or 12 volts.

Model	Finish	Dimens., Inches		Price Each
		Length	Height	
XG	Black Enamel	14	8	\$60.00
XL	Black Enamel	14	8	65.00

FEDERAL VEHICLE SIRENS

MODELS 28, 66, AND 67 SIRENS



Above average in size and power. For heavy duty service on police cars, fire trucks, or ambulances. The Model 28 is not streamlined or chrome plated. The No. 67 incorporates the Propello-Ray moving light. Choice of 6 or 12 volts. All are 7 inches in diameter.

Model	Description	Dimens., Inches		Price Each
		Length	Height	
28	Underhood	9 1/2	8	\$60.00
66G	Grill	11	8	70.00
66L	Light	15	8	80.00
67	Propello-Ray	17	8 1/2	100.00

MODELS 76, 77, AND 78 COASTER SIRENS

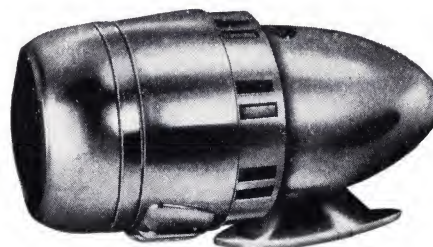


Special free wheeling clutch assembly allows sirens to coast for almost two minutes. Also are double tone models. Sound like two different sirens blowing simultaneously. An electric brake to stop coasting is optional. Other features like the 66 and 67, described above. Choice of 6 or 12 volts.

Model	Description	Dimens., Inches		Price Each
		Length	Height	
76	Underhood	11	8	\$85.00
77G	Grill	12	8	95.00
77L	Light	16	8	105.00
78	Propello-Ray	17	8 1/2	120.00

For same models with electric brake, add \$10.00.

MODELS C-4, C-5 AND C-6 SIRENS



The loudest and most powerful vehicle sirens. Eight-inch rotors produce deep powerful roar and coast almost three minutes. Superbly styled and chrome plated. Electric brake optional. Choice of 6 or 12 volts.

Model	Description	Dimens., Inches		Price Each
		Length	Width	
C-4	Underhood	11	9	\$ 90.00
C5G	Grill	12	9	100.00
C5L	Light	16	9	110.00
C-6	Propello-Ray	17	9	125.00

For same models with electric brake, add \$10.00.

FARADAY INDUSTRIAL HORNS WEATHERPROOF HORNS—OUTDOOR USE



Heavy duty, vibrating type with cast base tapped for direct entrance of 1/2-inch surface conduit. Also for mounting over outlet box in wall with hanger plate. Hanger plate furnished without charge, but only when specified on order for horn. Signal is sharp, clean cut, horn-tone of maximum strength.

Standard finish, black wrinkle enamel. Red enamel, if specified on order, without extra charge. All coils impregnated to make moisture-proof. Loudness rating at source: Megaphone 3500M; Two-way 3000M units.

For A.C. Operation—Underwriters Listed

Cat. No.	Projector Style	Std. Pkg.	Shpg. Wt. Lbs.	24 V. 115 V.	Other Voltages to 250 V.	*Series Operation
122	Megaphone	1	7	\$25.00	\$29.00	\$25.00
124	Two-Way	1	11	33.50	37.00	33.50

Discount Schedule: S S C

For D.C. Operation—Underwriters Listed

Cat. No.	Projector Style	Std. Pkg.	Shpg. Wt. Lbs.	9 V., 24 V. 115 & 250 V.
147	Megaphone	1	7	\$29.00
149	Two-Way	1	11	37.00

Discount Schedule: S S C

UNIPACT AND STANDARD HORNS INSIDE USE



Faraday Unipact horns are furnished with the Unipact dead front adapter plate which not only provides for interchangeability of horn with other Unipact signals but enables quick, safe installation over 4-inch square, or octagon, wall box, Condulet or Wiremold fitting.

Faraday Standard horns are designed for direct connection to 1/2-inch surface conduit, or for mounting over 4-inch square wall box with hanger plate. Hanger plate furnished without charge if ordered with horn. Standard finish is black wrinkle enamel. Red enamel, if specified on order, no extra charge. All coils specially impregnated to insure moistureproof qualities. Loudness rating at source: Megaphone 3500M; other styles 3000M units.

For A.C. Operation—Underwriters Listed

Cat. No.	Projector Style	Shpg. Wt. Lbs.	24 V. 115 V.	Other Voltages to 250 V.	*Series Operation
121-U	121-S Mega.	5 1/2	\$21.00	\$25.00	\$21.00
123-U	123-S 2-Way	9 1/2	29.50	33.50	29.50
126-S	Flush	5	30.00*	34.00*	30.00
127-U	127-S Drum	4 1/2	18.50	23.00	18.50
128-U	128-S Short	5 1/2	21.00	25.00	21.00

Discount Schedule: S *C S *C C
Standard package—1.

For D.C. Operation—Underwriters Listed

Cat. No.	Projector Style	Std. Pkg.	Shpg. Wt. Lbs.	9 V., 24 V. 115 V.
146-U	146-S Megaphone	1	5 1/2	\$25.00
148-U	148-S Two-Way	1	9 1/2	33.50
137-S	Flush	1	5	34.00*
144-U	144-S Drum	1	4 1/2	23.00
145-U	145-S Short	1	5 1/2	25.00

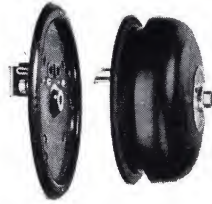
Discount Schedule: S *C

*Specify exact voltage.

†Wound for Series Operation on Fire Alarm System.

FARADAY UNIPACT BELLS HEAVY DUTY—UNDERDOME TYPE AC AND DC

Underwriters Listed for Outdoor or Indoor Use



Faraday UniPact Bells have the Power-Pact mechanism insuring clean cut signals of maximum volume and clear bell tone. UniPact dead front adapter plate furnished with each bell facilitates mounting over 4-inch square or octagon outlet box, Condulet or

Wiremold fitting — and permits safe interchange of bell with any other UniPact signal. The 4-inch size is not equipped with UniPact feature.

Standard finish—black wrinkle enamel with black parkerized gong. Red enamel base if specified at no extra charge.

VIBRATING BELLS

No. 2000—For AC Operation

Gong Size Inches	Std. Pkg.	Wt. Lb.	24 V.	115 V.	Other Voltages to 250 V.	*Series Operation
4	1	---	\$20.00	\$25.00	\$30.00	---
6	1	5	28.50	33.50	38.50	\$33.50
10	1	10	40.00	45.00	50.00	45.00

No. 2000-W—Weatherproof—For AC Operation

Gong Size Inches	Std. Pkg.	Wt. Lb.	24 V.	115 V.	Other Voltages to 250 V.	*Series Operation
6	1	5	34.50	39.50	44.50	39.50
10	1	10	46.00	51.00	56.00	51.00

Discount Schedule: S S S C

For Full Dome Guards—All Above:

No. 318 for 6-inch Bells—add to list.....\$12.50

No. 319 for 10-inch Bells—add to list..... 15.00

FARADAY STANDARD BELLS

HEAVY DUTY—NECK TYPE—AC AND DC

Underwriters Listed for Outdoor or Indoor Use

Highest quality in Neck Type bells—arranged for direct connection to 1/2-inch surface conduit — or for mounting over outlet box in wall with hanger plate. Hanger plate furnished only when specified, no extra charge. Power-Pact mechanisms for clear, distinct signals, minimum maintenance.

Frame finished black wrinkle enamel, gong parkerized. Red enamel frame, if specified, no extra charge. Cast frame and close fitting, gasketed cover.



Vibrating Bells—ATL-700 for AC

Gong Size Inches	Overall Sizes (Frame H. D.)	24 V.	115 V.	Other Voltages to 250 V.	*Series Operation
4	4 3/8 x 5 1/8 x 4 1/8	\$20.00	\$25.00	\$30.00	\$25.00
6	5 1/8 x 6 1/8 x 4 1/8	28.50	33.50	38.50	33.50
10	5 3/8 x 6 3/8 x 4 1/8	40.00	45.00	50.00	45.00

Discount Schedule: S S S C

*These bells wound for series operation on Fire Alarm Systems.

Cast Bell Metal Gongs:

4"—add to list, \$5.00; 6"—add to list, \$11.00; 10"—add to list, \$20.00.

Cow Gongs:

2" x 3" on 4" Bells—add to list.....\$ 5.00
3 1/8" x 5" on 6" Bells—add to list..... 11.00
4 3/8" x 6" on 6" Bells—add to list..... 17.50

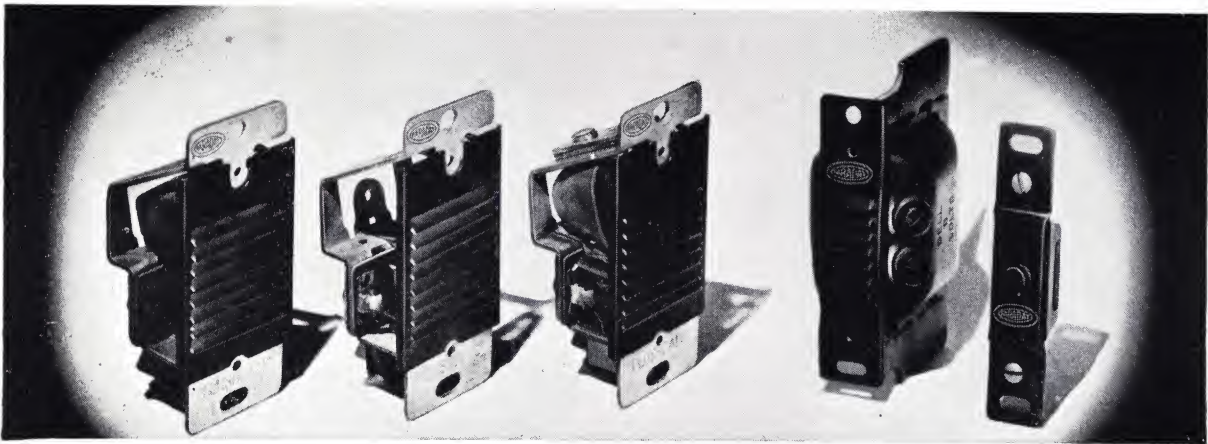
Full Grid Guards:

No. 330 for 6" Bells—add to list..... 12.50
No. 332 for 10" Bells—add to list..... 15.00

Weatherproof Housings:

No. 320 for 6" Bells—add to list..... 40.00
No. 321 for 10" Bells—add to list..... 40.00

FARADAY FLUSHCALL LINE



Efficient signal service combined with pleasing appearance. Neat, compact, flush type signal units for residential apartment houses, office and other uses. All items are of yoke mounted type, conveniently arranged for mounting in regular single, or multiple gang wall boxes, with standard switch or receptacle plates. Shallow depth and special construction of frame allows ample room for lock nuts and wires in box.

No adjustments required — but tone volume of Buzacall can be varied if desired. All devices arranged for use on 60-cycle, AC. 25-cycle AC at no extra charge.

Special frames protect mechanisms — louvered fronts prevent tampering. All units under standard toggle switch plates. Wall plates not included.

THE RINGCALL

Provides pleasing bell note of good volume, requires single-gang box and plate, or one gang unit.

Cat. No.	Voltage A.C.	Standard Package No.	Pkg. Wt.	Sched-ule	List Each
660	8-10	6	2 lb.	S	\$1.50
760	24	3	8 oz.	S	1.85
1060	115	..	8 oz.	C	7.00

THE BUZACALL

An adjustable buzzer signal of better tone and greater volume. Requires single-gang box or one gang when combined with other units.

Cat. No.	Voltage A.C.	Standard Package No.	Pkg. Wt.	Sched-ule	List Each
661	8-10	6	2 lb.	S	\$1.45
761	24	3	8 oz.	S	1.75
1061	115	..	8 oz.	C	6.90

THE MELOCALL

A "different" signal — usually adopted for dining room to kitchen calls. Requires single-gang box and plate, or one gang unit.

Cat. No.	Voltage A.C.	Standard Package No.	Pkg. Wt.	Sched-ule	List Each
663	8-10	3	2 1/4 lb.	S	\$2.05
763	24	3	8 oz.	C	2.35

THE TUCALL

Combination bell and buzzer in one unit. Suitable for use as front and rear door. Requires single-gang box and plate, or one gang unit.

Cat. No.	Voltage A.C.	Standard Package No.	Pkg. Wt.	Sched-ule	List Each
662	8-10	6	2 lb.	S	\$2.35
762	24	3	8 oz.	S	2.35

LICENSE NOTICE—Flushcall, Ringcall, Buzacall, Melocall, and Tucall are all trade-marks registered in the U. S. Patent Office and owned by Edwards & Company, Inc., which has licensed the Faraday Electric Corporation to use them and has further licensed us under its U. S. Patents and patents pending; Powacall is the trade-mark of Edwards & Company, Inc., registered in the U. S. Patent Office, and we use it because the "Powacall" Transformer is of Edwards Company manufacture.

COMBINATION BELL, BUZZER AND PUSH

For apartments without telephone systems—different combinations of signals can be furnished to fit a single-gang box. For these combination units only — a brushed brass plate is furnished.

Cat. No.	Provides	Std. Pkg.	Pkg. Wt. Lb.	Brass Plate 8-10V. AC List Each
770	Ring and Push	3	1/2	\$3.50
771	Buzz and Push	3	1/2	3.50
772	Ring, Buzz and Push.....	3	1/2	3.85

Schedule "C" Discounts

THE POWACALL

Replaces the old-fashioned bell ringing transformer. Neat and convenient — it becomes a part of the unified signal set-up. Powacall requires the space of only one gang unit, however, at least one of the other units or an outlet must be used on either side. Cannot be used in single, or two-gang box. Underwriters' listed.

Cat. No.	Primary Voltage	Secondary	Std. Pkg. No.	Wt. Lb.	Sched-ule	List Each
666	115 v.	8 v.	3	12	S	\$2.80

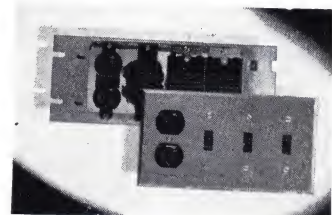
FARADAY PUSH—LOW VOLTAGE

A neat, dependable pushbutton arranged for mounting in a single-gang wall box. Used for operation of door-opener or for return signal.

Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Sched-ule	List Each
664	6	1/2	S	\$0.40

TYPICAL COMBINATION OF FLUSHCALL UNITS

Illustration shows how a double outlet unit, Powacall transformer, Buzacall and Tucall may be installed in a 4-gang box. Note how neatly the plate covers them.



FARADAY SMALL BELLS AND BUZZERS

FARADAY ECLIPSE COVERED BELLS AND BUZZERS



Modern design, high quality, low cost line of residential signals for up-to-date home or office. Completely enclosed to protect from dust, bugs and dampness. Base permits solid mounting. Mechanism grounded to frame. Standard voltages only—AC 6-8 volt; DC 3-6 volt. Standard finish, pearl gray.

Cat. No.	Type	Std. Pkg.	Shpg. Wt. Lbs.	List Price Each
500	2½ in. Bell	12	6	\$1.00
501	Buzzer	12	3	.85
502	Bell - Buzzer	12	9	1.60

Schedule "S" Discounts

FARADAY MONITOR BELLS AND BUZZERS

A compact, effective signal especially adapted to those applications where space and weight are at a premium and where a reliable signal is required. The solenoid type of mechanism is completely concealed.



The vibrating bell is smooth operating and powerful. It gives an even, loud signal. The single stroke bell gives a clear, sharp signal of distinct tone. Black enamel finish gong and frame.

Vibrating Bells

Model	Diam. Gong	Overall Depth	8-10 V. AC	24 V. AC	115 V. AC to 250V AC	Other Voltages
346	3	2¼	\$3.00	\$4.50	\$6.00	\$7.00
346	4	2¼	4.25	5.50	7.75	8.75
9 Volt DC						
347	3	2¼	\$3.00	\$4.50	\$6.00	\$7.00
347	4	2¼	4.25	5.50	7.75	8.75

Single Stroke Bells

Single Stroke Bells				Other Voltages	
Model	Diam. Gong	Overall Depth	24 V. AC	115 V. AC to 250V AC	
336	3	2¼	-----	\$4.50	\$6.00
336	4	2¼	-----	5.50	7.75
			9 Volt DC	24 V. DC	115V. DC to 250V DC
337	3	2¼	\$3.00	\$4.50	\$6.00
337	4	2¼	4.25	5.50	7.75

Hangar Plates furnished free on high voltage signals if specified on order.

FARADAY BUZZERS

FARADAY UNIPACT BUZZERS

Heavy Duty—Quick Change



Equipped with Power-Pact mechanism, of the plunger type. Gives a positive, even buzzing tone. Plunger is free acting, octagon stainless steel. All coils are impregnated. Connections are made to back of dead-front adapter-plate which is mounted on standard 4-inch outlet box, Con-

dulet or Wiremold fitting, buzzer or any other UniPact signal is then plugged in. Special adapter-plate for panel mounting is furnished without charge. Specify "P."

Black wrinkle finish, red enamel no extra charge if specified on order.

No. 2008 for AC

Dia. In.	Depth In.	Shpg. Wt. Lbs.	24 V.	115 V.	Other Voltages to 250 V.
6¼	3	5	\$15.00	\$19.00	\$23.00

MURDOCK "TONE-RIGHT" BUZZER

No. 46



This buzzer is not only designed for beauty but for lasting, trouble-free performance. Produces a pleasant, uniform tone.

No contact to burn out and give trouble.

Modern louver design makes an attractive appearance. Available in black, walnut or ivory.

Operated on 6 to 8 volts, A.C. only.

Furnished with two mounting screws. Base 3½ x 1½ x 1¼ inch deep.

No. 46, "Tone-Right" Buzzer.....each \$0.80

MURDOCK PUSH BUTTONS

NAME PLATE MODEL No. 11



Smartly styled push button with long life moulded in. A beautifully finished Name-Plate push button in black or walnut. Has new improved positive spring contacts.

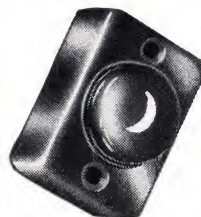
All metal parts are rustproof and thoroughly insulated. Extra large push button decorated with crescent design.

Removable metal escutcheon to insert name card.

Base 3¼ x 1½ x ¾ inch deep. Furnished with two mounting screws.

No. 11, Name Plate Model.....each \$0.40

PUSH BUTTON No. 10



Distinctive, sturdy Push Button in handsome black or walnut finish.

Same superior construction as model No. 11, but without name-plate.

Never-fail operation to insure years of service in homes, buildings, and inter-office communications.

Furnished with two mounting screws. Base 1½ x 1½ x ¾ inch deep.

No. 10, Push Button.....each \$0.30

EAGLE HEAVY DUTY DEEP PEARL PUSH BUTTON

Button is held firmly, will not stick or jam. ⅝-in. center; ½ in. depth of shank.



Cat. No.	Carton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
188	10	100	2	\$36.00

NuTONE LUMINOUS PUSH BUTTONS

No. PB-3 MODERN



Smart black and ivory plastic, beautiful by day, luminous by night. Chrome-plated brass cover conceals mounting screws — weatherproof, rust-proof — can't stain door frame. Beautiful, 5-color self dispensing, counter unit holds 12 buttons.

Standard package: 12 buttons in counter merchandiser.

Cat. No.	Size Ins.	Shpg. Wt. Std. Pkg.	Price Each
PB-3	3x $\frac{7}{8}$	1 lb.	\$1.00

No. PB-4 JEWEL

Colonial style polished brass 3-inch button plate — luminous button glows at night. Coil spring gives positive sliding contact — fully insulated, weatherproof. Counter unit displays 12 buttons.

Standard package: 12 buttons in counter merchandiser.



Cat. No.	Size Ins.	Shpg. Wt. Std. Pkg.	Price Each
PB-4	3x1 $\frac{1}{4}$	1 lb. 11 oz.	\$1.00

No. PB-1 ROUND

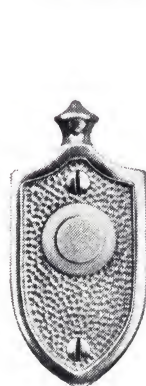


All-luminous, ivory plastic button, fully insulated, has positive sliding contact. Tested and approved by leading Electrical Laboratories. Fits $\frac{5}{8}$ -inch hole.

Standard package: 24 buttons in counter merchandiser.

Cat. No.	Size Ins.	Shpg. Wt. Std. Pkg.	Price Each
PB-1	1 $\frac{1}{2}$	5 $\frac{1}{2}$ oz.	\$0.35

"GLOW-IN-THE-DARK" PUSH BUTTONS



PB-2
"Mt. Vernon"



PB-5
"Concord"



PB-6
"Economy"

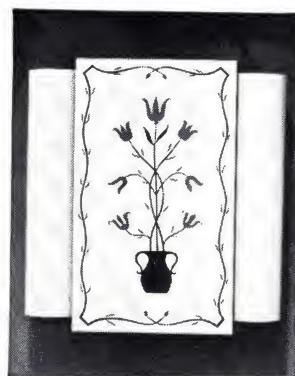
PB-2 Mt. Vernon—Stately, hammered design solid cast brass with luminous plastic button. 1 $\frac{1}{2}$ x3 $\frac{1}{4}$ inches. Standard package, 12; weight 2 $\frac{1}{2}$ lbs. each **\$1.25**

PB-5 Concord—Beautifully styled, solid cast brass push button with personalized name plate. Standard package, 6; weight 2 $\frac{1}{4}$ lbs. each **\$2.50**

PB-6 Economy—A new, stunning design. Solid brass and luminous plastic button. Also available in chrome. 1 $\frac{3}{8}$ x2 $\frac{1}{2}$ inches. Standard package, 12; weight, 18 oz. each **\$0.85**

RITTENHOUSE DOOR CHIMES

TULIP TIME—Model 285



A gay new chime for the kitchen. The friendliest note of welcome yet. Authentic, colorful Pennsylvania Dutch design — a treat to eye and ear. Sounds two melodious notes for the front door, a single-note for the rear door. Easily installed on regular doorbell wiring and transformer. Available with ivory, red, or green tubes; face of chime is ivory embellished with yellow, green, and red design.

Size 6 $\frac{3}{4}$ inches wide; 7 $\frac{1}{8}$ inches high.

Cat. No.	Standard Package*	Wt. Lbs. Std. Pkg.	Price Each
285	2 Red, 1 Green, 1 Ivory.....	10	\$5.95

KITCHEN BEAUTY—Model 315

Compact Door Chime and Kitchen Clock in One Compact Unit



Designed for kitchens and breakfast nooks, in any type of home or apartment. This model combines a self-starting Sessions electric clock with a melodious 2-note chime for the front door signal. A single-note is also available for the rear door. Clock operates on 110-volts A.C.; chime on standard 10-volt doorbell transformer. One-piece, easy-to-clean, attractively designed plastic housing. In white, red, green, or yellow colors. An ideal gift item.

Size 7 $\frac{1}{4}$ x 7 $\frac{1}{4}$ inches.

Cat. No.	Standard Package*	Wt. Lbs. Std. Pkg.	Price Each
315	1 Red, 1 Yellow, 1 White, 1 Green	12	\$9.95

Plus 95c federal tax.

*Any color assortment of 4 may be ordered at the standard package price. Specify colors wanted.

RITTENHOUSE ELECTRIC DOOR CHIMES UTILITY MODEL

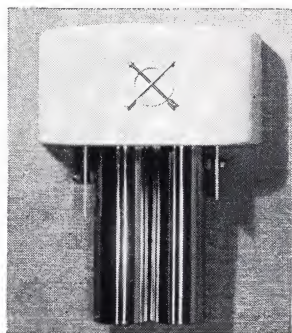


A compact chime for general, utility, signaling service. Provides both 2-note and 1-note signals. Operates on standard 10-volt doorbell transformer. Approx. size 7 inches wide x 4 inches high.

Price, No. 225 (std. pkg. 12; wt. 19 lbs.)...ea. \$3.95

THE BROOKDALE

Smart simplicity that blends charmingly with any kitchen or breakfast nook decorative scheme. Ideal for small homes. Sounds two notes for the front door, one note for rear. Finished in White and Chrome or Ivory and Brushed Brass. Operates on standard 10-volt doorbell transformer. Size 7" x 9 3/4".



Price, No. 265 (std. pkg. 6; wt. 19 lbs.)...ea. \$6.95

THE DORSET



This original and distinctive Norman Bel Geddes sounds both 2-note and 1-note signals. Has lustrous Ivory Plastic housing and brushed brass tubes. Operates on a standard doorbell transformer. Size 9 1/4 wide x 10 ins. high.

Price, No. 312 (std. pkg. 6; wt. 17 lbs.)...ea. \$8.95

THE SHEFFIELD

A perfect adjunct to the loveliness of any hall, the Sheffield sounds a rich, melodious four-note Westminster Chime sequence for the front door and single-note for the rear door. Included are an adjustable volume control, and the patented Rittenhouse "Rhythm Master" timing mechanism. Brushed brass tubes 1 1/8 in. in diameter — suspended from a lustrous, moulded Plastic Housing of rich burgundy. Operates on a special transformer supplied without extra charge. Approximate size 9 3/4 inches wide x 55 1/2 inches high.

Price, No. 410.....each \$39.50

Standard package, 3; weight, 40 lbs.

THE SENTINEL

High style and performance. This model is available either with 3 tubes (illustrated) or with 2 tubes. Both models sound two rich, resonant tones for front door and a single-note for rear door. Ivory plastic housing with gold finished decorative motif. Tube finish, brushed brass. "Floating Percussion" mechanism. Operates on special transformer, packed with chime. Size, 14 1/4 in. x 9 in. Standard package, 6; weight 33 lbs.

Price, No. 365, 3-Tubes.....each \$13.95

No. 362, 2-Tubes.....each 12.95

THE LYRIC

This beautiful, long-tube model provides both two-note and single-note chime signals. The long, 1 1/4 inch diameter brass chime tubes combine with the smartly styled plastic housing to provide a particularly graceful design. The housing comes in Ivory finish and the tube finish is the natural, lacquered brass. Operates on standard 10-volt doorbell transformer. Approx. size 8 3/4 inches wide x 46 1/2 inches high.

Price, No. 318

.....each \$13.50

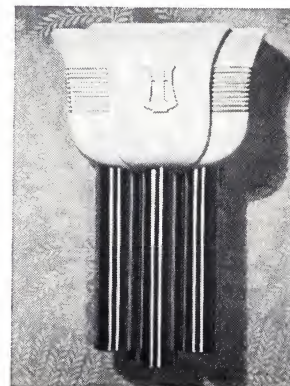
Standard package, 6; weight, 52 lbs.



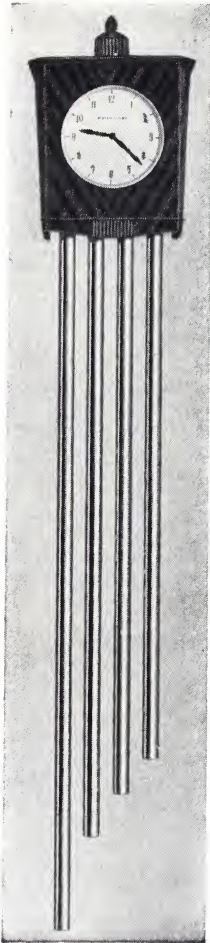
THE BEVERLY

A stunning Norman Bel Geddes design with completely new mechanism. Plays rich, melodious three or four-note tone sequence. Housed in charming Ivory Plastic. Additional single-note signal for rear door. Includes adjustable volume control, patented Rittenhouse "Rhythm Master" timing mechanism, and shut-off switch. Brushed brass finish tubes. Furnished complete with specially matched Rittenhouse transformer. Size 15 3/4 inches x 9 inches.

Price, No. 520 (std. pkg. 6; wt. 40 lbs.)...ea. \$26.50



RITTENHOUSE ELECTRIC DOOR CHIMES



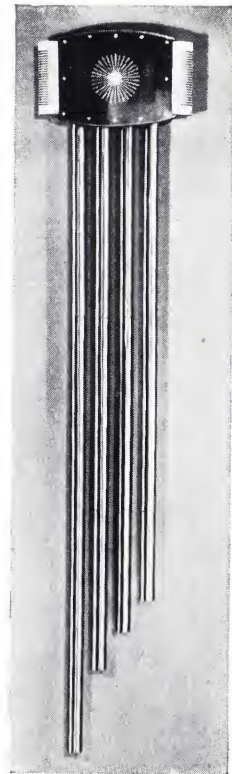
Queen Anne

The Queen Anne—Truly a magnificent chime for fine homes everywhere. The beautifully proportioned cabinet is made with diagonally grained mahogany, hand burnished to a rich, satiny finish. The self-starting electric clock operates from the same power supply as the chime and requires no additional wiring. The clock melodiously strikes the hours. The chime plays a 8-note Westminster sequence when front door button is pressed, and also has available both a 2-note and a single-note signal for the rear door, or for other household signaling purposes. The Rittenhouse Melody Selector makes it possible to change the front entrance signal to any one of three, different, 4 and 8-note combinations. Has volume control to adjust tone to any desired level. Special 24-volt transformer included. Size 11½ in. by 62½ in. Standard package, 1; shipping weight, 15½ lbs.

Price, Model No. 625, The Queen Anne.....each \$94.50
Model No. 620-R, same as 625 but does
not strike the hours.....each 89.50

King Edward—Superb Westminster chime for discriminating home owners. Graceful brushed brass tubes are suspended below a lovely, soft-blue, plate-glass mirror. Exactly the same chime mechanism that is used in the Queen Anne Model described above. Comes complete with special 24-volt transformer. Size 11¼ in. x 54 in. Standard package, 1; shipping weight 15 lbs.

Price, Model 420, King Edward.....each \$49.50



King Edward



Kitchenette

Kitchenette Model—Designed for kitchens and breakfast nooks, this model combines a self-starting electric clock with a melodious 2-note chime for door signal. A single-note is also available for rear door. Clock operates on 110-volt AC, chimes on standard 10-volt doorbell transformer. Finished in white enamel. Size 7½ in. x 9¼ in. Standard package, 6; wt. 21 lbs. Price, No. 510.....each \$16.50

The Builder—Attractive, low cost chime with excellent tone. Easy to install and dependable in operation. Sounds two notes for front door, one for the rear. Ivory and gold housing, brushed brass tubes. Operates on standard 10-volt bell transformer. Size, 7½ in. x 43 in. Standard package, 6.

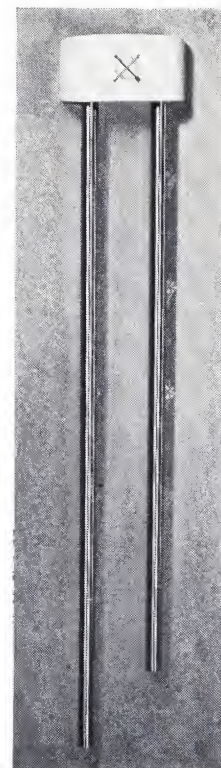
Cat. No.	Shipping Wt. Lbs.	List Price
376	29	\$8.95

Symphonette Model—Rich colors, attractive design. These features, plus excellent tone, make this model particularly well suited for gifts. Compact in size, it is also ideal for use as call signal in doctors' offices, clubs, taverns, etc. Provides both a 2-note and a single-note signal. Operates on standard doorbell transformer. Size 7½x4¼ inches. Standard finishes: Maroon and Ivory, Gray and Off-White, Blue and Dusty Pink. Standard package 6.

Price, No. 300, Standard Finish..... \$5.95
No. 300R Spl. Colonial Brass, Emerald Green 7.95



Symphonette



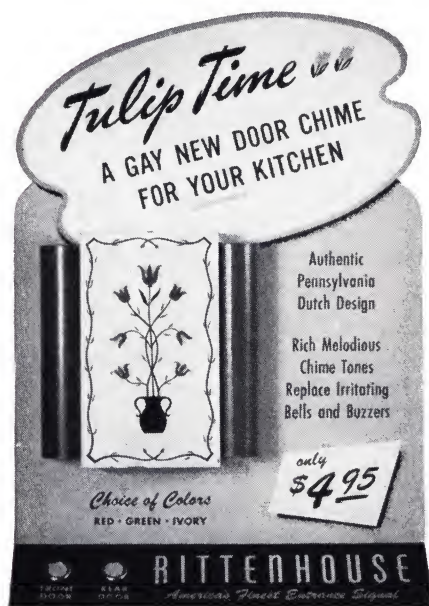
The Builder

RITTENHOUSE CHIME DISPLAYS



To sell the new Rittenhouse Door Chimes for kitchens, two beautiful, colorful, traffic-stopping counter displays with operating models, furnished free to dealers and distributors for the price of the chimes alone. No extra stock purchase required to get these displays.

Mounted on each display is an actual operating model for customer try out and demonstration. Display is battery operated for complete portability. The battery is included.



DISPLAY RD 285

Tulip Time—A gay new chime for the kitchen. Authentic Pennsylvania Dutch Design. Two notes for the front door, one for the rear door.

List price of Tulip Chime\$5.95
Display free.

DISPLAY RD 315

Kitchen Beauty Model 315—A new low-priced combination door chime and electric clock. It chimes — it tells time. Variety of colors suitable for any "dream" kitchen.

List price of Kitchen Beauty Chime.....\$9.95
Display free.

The counter displays of Tulip Time and Kitchen Beauty are 12 inches wide; 18 inches high. Made of stiff cardboard with easel, these durable displays are screened in two colors with an actual operating model mounted on each display. Displays have two push-buttons in base panel and are battery operated for complete portability. Battery included. Displays make a smart traffic-stopping sales producer for any store.

"STANDARD DISPLAY"
RD-72

Practically a complete chime department in itself. It spotlights attention on the merchandise — it sells. This new display, richly finished in pleasing colors, exhibits a wide range of models, and permits actual sound operation of each. The ten chimes shown here are mounted on the board — all you have to do is hang it on the wall and let it sell for you.

Individual fact tags give all the selling features for each model. Completely wired, with push-buttons, transformer and plug-in-cord.

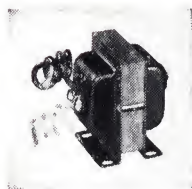
Dimensions: Board size — 60 x 53 inches. Chime tubes extend 13 inches below board. Shipping weight complete with mounted chimes, 91 lbs.

List Price of Chimes on Display\$145.15
Display Free.



JEFFERSON BELL RINGING TRANSFORMERS

THREE-IN-ONE UNIVERSAL BELL TRANSFORMER



Designed for quick attachment to (1) round or square outlet box cover, (2) side of outlet box, or (3) to wall of fuse or switch cabinet, the Jefferson "Universal" Bell Transformer requires no separate plates. It is ready to mount wherever there is a knockout while mounting feet

are also provided for open wiring installation on post, wall, or ceiling. Especially efficient for operating: Ordinary door bells of 2½ to 4-inch size, requiring about 3 watts each. Electric door openers. Transformer bells 3 to 6-inch size. Buzzers requiring about 2 to 4 watts. Annunciator or elevator signals. Furnace thermostats requiring 2 to 4 watts each.

Cat. No.	— Voltages —		Size Inches	Cycle	Std. Pkg.	Price Each
	Pri-Secondary	ary				
230-201	115	10	2½x1¾x2	50-60	50	\$1.45
230-202	115	10	2½x1¾x2	25-40	50	2.90

TRI-VOLT

This transformer provides three secondary voltages, 6, 12 and 18 volts; capacity 5 watts. Recommended for heavier work than the Wizard or Nucode types, especially where long leads are required. Size, 2x2½x3¾. Weight, 1½ pounds.

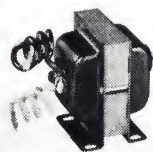


Cat. No.	Watts	Secondary Voltage	— Primary —		Price Each
			Volts	Cycles	
230-121	5	6-12-18	115	50-60	\$2.00
230-122	5	6-12-18	115	25-40	4.00

JEFFERSON CHIME TRANSFORMERS

CHIME TRANSFORMER 7½ V.A.

Universal Construction



To operate small and large chimes, transformers in this group are furnished with 12 volts and 18 volt taps. Types with secondary leads are listed as standard by Underwriters' Laboratories, Inc. Those with secondary binding posts are made exactly the same as listed types, but are not eligible for

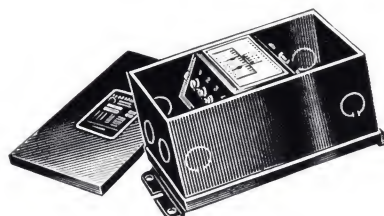
listing. Size: 2x2x2½ inches. Weight 1½ lbs.

Cat. No.	Description	Volts	Cycles	List Each
Standard Mounting Feet				
230-151	Secondary Leads	115	60	\$1.50
230-152		115	25	2.00
230-251	‡Secondary Binding Posts	115	60	1.50
230-252		115	25	2.00

‡Not Listed as standard by Underwriters' Laboratories, Inc.

For 230 volt, 60 cycle primary, add 33¾ per cent.

JEFFERSON SIGNALING TRANSFORMERS



Jefferson Signaling Transformers have been designed primarily for the most efficient operation of the present types of alternating current bells, horns and gongs; and for supplying low voltage power for the operation of complete signaling systems, including relays, controls, lamps, recorders, annunciators, etc.

The core and windings of each transformer are hermetically sealed in a heavy metal case for protection against dampness. To comply with the National Board of Underwriters' Specifications, transformers are equipped with flexible secondary leads. If desired binding posts can be supplied.

A separate compartment is provided for entirely enclosing the primary connections. Four knock-outs are provided in this compartment—two at the end and one at each side. Rigid or flexible conduit or armored cable may be used to meet N.E.C. rulings. For open wiring, standard ½-inch threaded bushings and locknuts may be used.

A special optional feature, is an automatic circuit breaker, which opens under overload or short circuit, affording protection both to transformer and equipment connected to it. A push button located at top of transformer permits quick and convenient re-setting of breaker apparatus, which is non-tamperable.

All of the following transformers have 4, 8, 12, 16, 20 and 24 volt secondary voltages.

Standard Types

Cat. No.	Cap. V.A.	— Primary —		Amps.	Wt. Lbs.	Price Each
		Volts	Freq.			
231-101	50	115	50-60	2	7½	\$6.70
231-102	50	115	25-40	2	8	10.70
231-111	100	115	50-60	4	11¾	10.70
231-112	100	115	25-40	4	13	17.10
231-141	250	115	50-60	10	14¾	24.00
231-142	250	115	25-40	10	28	38.40
231-151	500	115	50-60	20	28	38.80
231-152	500	115	25-40	20	59	62.00
231-171	750	115	50-60	30	35	46.75
231-172	750	115	25-40	30	84	75.00
231-181	1000	115	50-60	40	59	58.00
231-182	1000	115	25-40	40	99	93.00

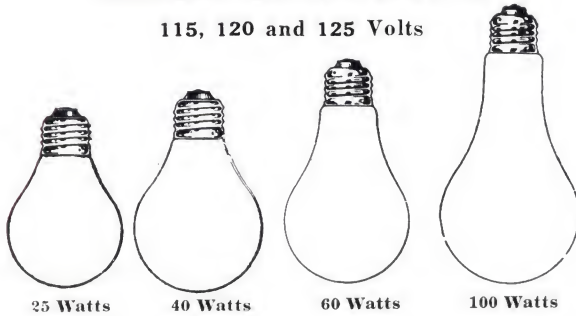
Equipped with Primary Circuit Breaker

231-301	50	115	50-60	2	7½	8.20
231-302	50	115	25-40	2	8	12.20
231-311	100	115	50-60	4	11¾	12.20
231-312	100	115	25-40	4	13	18.60
231-341	250	115	50-60	10	14¾	25.50
231-342	250	115	25-40	10	28	39.90
231-351	500	115	50-60	20	28	40.30
231-352	500	115	25-40	20	59	63.50
231-371	750	115	50-60	30	35	48.25
231-372	750	115	25-40	30	84	76.50
231-381	1000	115	50-60	40	59	59.50
231-382	1000	115	25-40	40	99	94.50

Standard winding operate on 115 volts, 50-60 cycles and, unless otherwise specified, are furnished on all orders. For 220-volt transformers, add 20 per cent to above prices.

WESTINGHOUSE LAMPS GENERAL LIGHTING SERVICE

115, 120 and 125 Volts

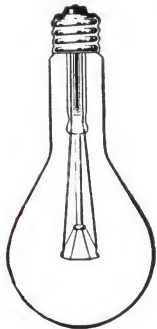


Inside Frosted					
Watts	Bulb	Approx. Lumens	Screw Base	Std. Pkg.	Price Each
15	A-15	142	Med.	120	\$0.12
25	A-19	260	Med.	120	.12
40	A-19	470	Med.	120	.12
60	A-19	835	Med.	120	.12
75	A-21	1120	Med.	120	.15
100	A-21	1630	Med.	120	.15
150	PS-25	2600	Med.	60	.20

Lamps of 40 watts and above are gas-filled and because of the bulb temperature should be protected from rain and snow when used out of doors.

GENERAL LIGHTING SERVICE

115, 120 and 125 Volts



Clear bulb lamps are satisfactory for use in adequately shielded reflectors or diffusing equipment; also in floodlighting and miscellaneous special applications requiring reasonably accurate control of light. White bowl lamps can be burned in any position, but lumen maintenance is best when burned base up. Recommended for use in open-type equipment such as RLM standard reflector to improve the quality of illumination.

Medium Screw Base

Watts	Bulb	Approx. Lumens	Std. Pkg.	Price Each		
				Clear	Inside Frosted	White Bowl
150	PS-25	2600	60	\$0.20	\$0.20	\$0.25
200	PS-30	3700	60	.27	.27	.32
300	PS-30	5900	60	.40	.45	.....

Mogul Screw Base

300	PS-35	5650	24	.65	.70	.70
500	PS-40	9950	24	.95	1.00	1.00
750	PS-52	15500	6	2.90	3.05	.....
1000	PS-52	21500	6	3.10	3.30	.....
1500	PS-52	33000	6	4.75	.....	.....

Medium Bipost Base

750	T-24	14000	12	.....	3.50	.....
1000	T-24	19500	12	.....	3.75	.....

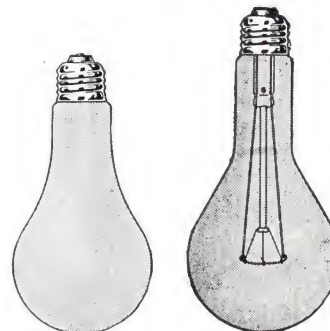
COUNTRY HOME LIGHTING SERVICE

30 Volts—Inside Frosted

Watts	Bulb	Screw Base	Approx. Lumens	Std. Pkg.	Price Each
15	A-17	Medium	180	120	\$0.20
25	A-19	Medium	350	120	.20
50	A-21	Medium	820	120	.20
100	A-23	Medium	1850	120	.33

WESTINGHOUSE LAMPS DAYLIGHT LAMPS

115, 120 and 125 Volts

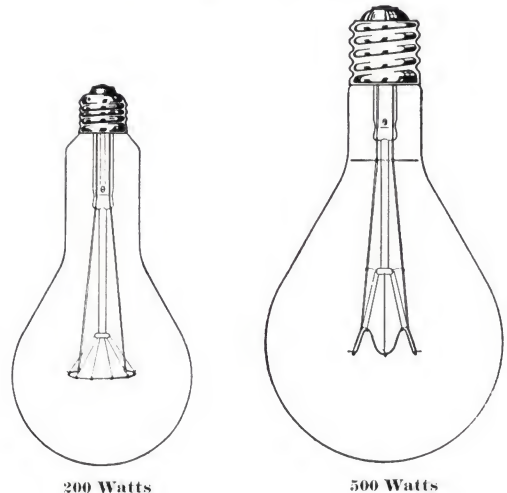


Daylight lamps have bulbs made of special blue glass to produce light approximating average daylight quality.

Watts	Bulb	Approx. Lumens	Screw Base	Std. Pkg.	Price Each	
					Clear	Inside Frosted
10	S-14	51	Medium	120	\$0.30	.....
60	A-19	540	Medium	120	.....	\$0.25
100	A-23	1060	Medium	120	.....	.30
150	PS-25	1600	Medium	60	.40	.45
200	PS-30	2350	Medium	60	.70	.75
300	PS-35	3650	Mogul	24	1.10	.....
500	PS-40	6400	Mogul	24	2.10	.....

HIGH VOLTAGE SERVICE

230 and 250 Volts



Medium Screw Base

Watts	Bulb	Approx. Lumens	Std. Pkg.	Price Each	
				Clear	Inside Frosted
25	A-19	215	120	.....	\$0.18
50	A-19	470	120	.....	.18
100	A-23	1230	12024
200	PS-30	2900	60	\$0.50	.55

Mine Lamps (275 and 300 Volts)

50	A-19	460	12027
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Mogul Screw Base

300	PS-35	4800	24	.85
500	PS-40	8750	24	1.40
750	PS-52	13900	6	3.50
1000	PS-52	19100	6	3.75	.....

These lamps will operate in any position of burning, but the lumen maintenance, particularly in lamps of higher wattage sizes, is best when burned vertically base up.

WESTINGHOUSE LAMPS THREE-LITE LAMPS

115, 120 and 125 Volts—White
For Indirect Portables and Wall Urns



G-30

The Indirect Three-Lite lamp permits the use of three levels of illumination from its two filaments which may be burned either at the same time or separately, a range from moderate amount of light for decorative value to full brilliancy, depending on the activities for which the light is desired. Can be burned only in the base down position.

Watts	Bulb	Base	Std. Pkg.	Price Each
100-200-300	G-30	3-Contact Mog.	60	\$0.60

THREE-LITE LAMPS

115, 120 and 125 Volts — Inside Frosted

These lamps are particularly applicable in spaces where flexibility in intensity of lighting is desirable, such as retail stores. Either filament can be used separately for obtaining moderate intensities of illumination or the two filaments can be used together to obtain high intensities.

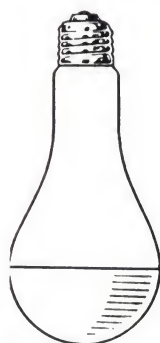


PS-25

Watts	Bulb	Base	Std. Pkg.	Price Each
50-100-150	PS-25	3-Contact Mog.	60	\$0.48
50-100-150	PS-25	3-Contact Med.	60	.36

SILVERED BOWL LAMPS

115, 120 and 125 Volts



Silvered bowl lamps have a permanent coating of mirror silver on the bowl. This coating shields the brilliant filament and forms a highly efficient reflecting surface as an integral part of the lamp. This reflecting surface does not dull or tarnish throughout the life of the lamp.

Silver bowl lamps should be used only in porcelain sockets and fixtures so designed that the temperatures of the lamp and fixture do not exceed limits for satisfactory operation.

Inside Frosted

Watts	Bulb	Base	Std. Pkg.	Price Each
60*	A-19	Medium	120	\$0.26
100*	A-23	Medium	120	.29
150*	PS-25	Medium	60	.45
200†	PS-30	Medium	60	.67
300†	PS-35	Mogul	24	1.20
500†	PS-40	Mogul	24	1.70
750†	PS-52	Mogul	6	4.75
1000†	PS-52	Mogul	6	5.00

*These lamps will operate in any position, but lumen maintenance is best when burned vertically base up.

†Burn base up only.

WESTINGHOUSE LAMPS SIGN AND DECORATIVE SERVICE

115, 120 and 125 Volts



S-14 Bulb



G-11 Bulb



S-11 Bulb

Watts	Bulb	Screw Base	Std. Pkg.	Price Each		
				Clear	Inside Frosted	Inside Colored
6	S-6	Cand.	120	\$0.16	-----	-----
7	†A-C-7	Cand.	120	.12	-----	-----
7½	‡S-11	Med.	120	-----	-----	-----
10	S-11	Inter.	120	.16	-----	\$0.21
10	*S-14	Med.	120	.15	\$0.15	.20
25	*A-19	Med.	120	-----	.12	.17

*Inside colored supplied in red, blue, green, yellow and amber-orange.

*Red, blue, green, yellow, amber-orange, flame-tint and ivory. Also available outside colored at \$0.17.

‡Supplied in outside white or red, \$0.15; not recommended for outdoor use.

†Supplied also in white at \$0.14.

*Designed for voltage range 115-125. Not available for individual voltages.

NATURAL COLORED LAMPS

115, 120 and 125 Volts

The lamps in natural colored clear glass bulbs listed below cover a large percentage of present demand for natural colored lamps. The prices shown are for the manufacturer's standard colored glass only.

Watts	Volts	Bulb	Std. Pkg.	Price Each		
				Amber	Blue*	Ruby* or Green
10	120	S-14	120	\$0.70	\$0.75	\$0.85
25	120	A-19	120	.70	.75	.85
60	120	A-21	120	.75	.80	1.00

*Natural ruby lamps are regularly furnished in the light shade. Dark ruby lamps used in photographic work will be furnished, only when definitely specified, at the same price.

*Does not include daylight blue or photographic blue.

ROUGH SERVICE

115, 120 and 125 Volts

For use where subjected to rough handling, such as with extension cords in garages and similar applications.

Inside Frosted

Watts	Bulb	Screw Base	Std. Pkg.	Price Each
50	A-19	Med.	120	\$0.25
100	A-23	Med.	120	.35



VIBRATION SERVICE

115, 120 and 125 Volts

Made to withstand high frequency vibration such as produced by high speed machinery. It is not recommended for horizontal burning.

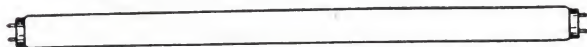
Inside Frosted

Watts	Bulb	Screw Base	Std. Pkg.	Price Each
50	A-19	Med.	120	\$0.20



WESTINGHOUSE FLUORESCENT LAMPS

WESTINGHOUSE TYPE F LAMPS



Fluorescent Lamp showing Pin Caps or Bases used on each end.

Improved fluorescent powder coating glows more brilliantly, stays bright from end-to-end.

†Standard Cool White, Daylight and White*

Watts	Bulb	Length Inches	Diameter Inches	Standard Package Quantity	Price Each
6	T-5	9	5/8	24	\$0.75
8	T-5	12	5/8	24	.85
14	T-12	15	1 1/2	24	.75
15	T-8	18	1	24	.62
15	T-12	18	1 1/2	24	.75
20	T-12	24	1 1/2	24	.75
25	T-12	33	1 1/2	24	.90
30	T-8	36	1	24	.75
40	T-12	48	1 1/2	24	1.00
90	T-17	60	2 3/8	12	2.30

Also available in Soft White, Standard Warm White and in colors.

*Color temperature—3500° K.

†Standard Cool White, formerly listed 4500 White.

WESTINGHOUSE TYPE RF LAMPS



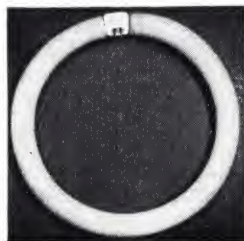
Type RF Lamps

Type RF lamps are high output, high efficiency fluorescent lamps of especial value in industrial lighting service. Available in Blue White or Industrial White color. Industrial White lamps provide white light approximating North Sky daylight and can be used in most industrial applications including many cases where color discrimination is important.

These lamps are designed to operate only with special equipment providing direct current through the use of a rectifying circuit.

Watts	Nominal Length	Diam. In.	Bulb	Price Each—Blue White	Ind. White
85	58	1 1/4	T-10	\$3.00	\$3.00

Base, special 2 and 3 prong. Standard package quantity, 12.



CIRCLINE LAMPS

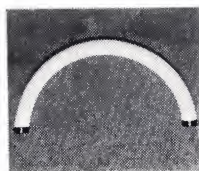
(Complete Circle)

Watts	32
Bulb	T-10
Base	4-Pin
Diameter	12"
Color	White
Std. Pkg.	12
List Price	\$1.95

CIRCLARC LAMPS

(Half Circle)

The Circlarc is a curved fluorescent lamp made in a T-8 bulb in the form of a half circle, 12 inches in diameter. It can be used singly or in multiple arrangements to provide a wide flexibility of application. Two of these lamps can be combined to form a complete circle where desired. This 18 watt White color lamp may be operated directly from 110-125 volt 60 cycle alternating current circuits with small low cost choke as a ballast. List Price, **\$1.35**.



WESTINGHOUSE SLIMLINE FLUORESCENT LAMPS

INSTANT START—USE WITHOUT STARTERS



F96T12

F42T6

All Westinghouse Fluorescent Lamps are multiple operation and should be used only with auxiliary equipment designed to produce proper electrical values. Lamps may be burned in any position.

Bulb	Nom. Lamp Watts	Color•(2)	Lamp Ordering Abbrev.	Std. Pkg. Qty.	*List Price
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Single Pin Base

42"—T-6 (3/4" diam.) (1)	18-33	Standard Cool Wh. De Luxe Cool Wh. Standard Warm Wh.	F42T6/CW F42T6/CWX F42T6/WW	24 24 24	\$1.70T † 1.70T
64"—T-6 (3/4" diam.) (1)	27-51	Standard Cool Wh. De Luxe Cool Wh. Standard Warm Wh.	F64T6/CW F64T6/CWX F64T6/WW	24 24 24	1.95T † 1.95T
72"—T-8 (1" diam.) (1)	26-51	Standard Cool Wh. De Luxe Cool Wh. Standard Warm Wh. De Luxe Warm Wh.	F72T8/CW F72T8/CWX F72T8/WW F72T8/WWX	24 24 24 24	2.20T † 2.20T †
96"—T-8 (1" diam.) (1)	34-51	Standard Cool Wh. De Luxe Cool Wh. Standard Warm Wh. De Luxe Warm Wh.	F96T8/CW F96T8/CWX F96T8/WW F96T8/WWX	24 24 24 24	2.90T † 2.90T †
96"—T-12 (1 1/2" diam.) (1)	96	Standard Cool Wh. De Luxe Cool Wh. Standard Warm Wh. De Luxe Warm Wh.	F96T12/CW F96T12/CWX F96T12/WW F96T12/WWX	12 12 12 12	3.50T † 3.50T †

*List price and Tax Symbol.

•All "Standard Cool White" listings were formerly "4500 White." All "Standard Warm White" listings were formerly "Warm White."

†When lamps become available, price information will be sent to all agents and purchasers under contract.

(1) Rated Average Lamp Life 6000 hours on a 12 hour per start burning cycle, 3 and 6 hours per start burning cycle 4000 and 5000 hours respectively.

(2) Lamp color is centered at 200 ma.

WESTINGHOUSE FLUORESCENT SUN LAMPS



FS20T12



FS40T12

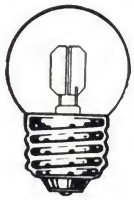
This is a completely different type of sun lamp. It is different because it makes practical the irradiation of entire rooms with ultraviolet, though it is also ideal for sun tanning a single individual. Heretofore, it has been impractical to provide ultraviolet, by means of artificial source, to a group of persons. Thus this new Westinghouse sun lamp revolutionizes previous concepts of indoor sunshine. It is different, too, in that it provides the most convenient and inexpensive way to produce ultraviolet that has ever been developed. This has been made possible because of the inherent efficiency of the Fluorescent Sun Lamp.

Cat. No.	Watts	Operating Voltage	Bulb Dia.	Nominal Overall Length	Car-ton	Price Each
FS20T12	20	60	1 1/2	24	6	\$4.50
FS40T12	40	106	1 1/2	48	6	7.00

Medium bi-pin base.

The nominal overall length includes one lamp plus two standard lamp-holders.

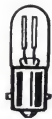
WESTINGHOUSE NEON GLOW LAMPS



S-11—1 Watt



T-4 1/2—1/4 Watt



T-3 1/4—1/25 Watt

The complete line of Westinghouse Neon Glow Lamps are ideal for such purposes as pilot lights, location markers, current indicators for household and industrial electrical appliances, signal lamps for call systems, night lights, house numbers and for exit lights. The Neon Glow Lamp has a low power consumption, long-life and low brilliancy.

Screw Base Lamps, excepting NE-1 contain the proper resistor within the lamp base for use on electrical circuits in the voltage range shown.

Bayonet Base Lamps, and including NE-1 and NE-2 require the user to provide an external resistor.

All glow lamps may be used on circuits of higher voltage than shown provided the proper value of external resistance is used.

Watts	Lamp No.	Volts	Bulb	Base	Price Each
1/25	NE-2‡	105-125	T-2	*	\$0.08
1/25	NE-51†	105-125	T-3 1/4	S.C. Min. Bay.	.10
1/10	NE-1†	105-125	G-6	Cand. Screw	.20
1/10	NE-26†	105-125	G-6	S.C. Bay. Cand.	.20
1/4	NE-45†	105-125	T-4 1/2	Cand. Screw	.40
1/4	NE-48†	105-125	T-4 1/2	D.C. Bay. Cand.	.35
1	NE-30†	105-125	S-11	Med. Screw	.40
1	NE-56†	210-250	S-11	Med. Screw	.40

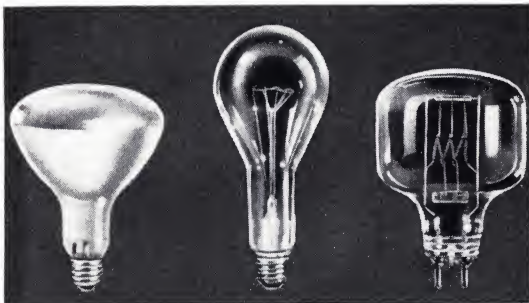
Federal Excise Tax not included in prices shown.

*Unbased, wire terminals.

†Unit pkg. qty. 10 lamps; std. pkg. qty. 100 lamps.

‡Unit pkg. qty. 100 lamps; std. pkg. qty. 1000 lamps.

WESTINGHOUSE RADIANT HEAT DRYING LAMPS



Greater speed plus lower installation costs of radiant heat have resulted in lower processing costs in many drying and heating applications. Since infra-red heat is radiated directly from its source to the object being heated, no elaborate insulated heating ovens are required.

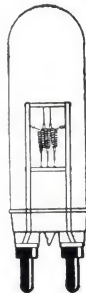
There are two broad general types of drying lamps available. One type is represented by the 250-watt R-40 bulb lamp having an inbuilt reflector and requiring no separate reflector. The other types require separate reflectors of Alzak aluminum or of gold plated metal—usually the latter. The 250-watt R-40 Bulb Reflector Lamp will be found satisfactory for a wide range of heating purposes.

WESTINGHOUSE RADIANT HEAT DRYING LAMPS

For example, this lamp provides all the benefits of infra-red in the home in a most practical way. Fitting regular household sockets and operating on standard voltage, it comes in handy for all the family. At the flick of a switch the quick-acting, penetrating infra-red rays help relieve the misery of stiff, sore muscles and joints. The lamp is also ideally suited for chasing chills while dressing on cold mornings, for drying hair or fingernail polish, and for many other domestic purposes.

Watts	Bulb	Volts	Base	Std. Pkg.	Price Each
250	R-40	110-125	Medium	24	\$1.10
250	R-40	110-125	Med. Skt.	24	1.25
250	R-40*	110-125	Medium	24	2.95
375	R-40	110-125	Med. Skt.	24	1.50
500	T-40	110-125	Med. Bipost	12	6.00
1000	T-40	110-125	Med. Bipost	12	7.00

*Red bulb, heat resisting glass.



AIRWAY BEACON LAMP

Mogul Bipost Base

Watts	Bulb	Volt	Filament	List Price Each
1000	T-20	30	C-13	\$7.00

PHOTO LAMPS

Photographically, the light from Photoflood lamp No. 1 is about equivalent to that obtained from a 750-watt general service lamp, No. 2 is the equivalent of a 1,000-watt lamp, while the No. 4 is at least 2 1/2 times as effective as the 1,000-watt general lighting lamp.



Photoflash Lamps—Clear or Colored Outside Lacquered Bulbs

Lamp No.	Voltage Range	Bulb	Lgth. In.	Base	Rated Life at 115V. Std. Hours	Price Each
SM	3*	B-11	2 1/2	SC Bay	120	\$0.14
5	3*	B-11	2 1/2	SC Bay	120	.12
5-B	3*	B-11	2 1/2	SC Bay	120	.16
6	3*	B-11	2 1/2	SC Bay	120	.15
11	3*	A-15	4	Med.	120	.14
22	3-125†	A-19	5	Med.	120	.16
22-B	3-125	A-19	5	Med.	120	.22
31	3*	A-21	5 1/2	Med.	60	.24
50	3-125†	A-21	5 1/2	Med.	60	.22
50-B	3-125†	A-21	5 1/2	Med.	60	.28

Photoflood Lamps—Inside Frosted Bulb

Lamp No.	Voltage Range	Bulb	Lgth. In.	Base	Rated Life at 115V. Std. Hours	Price Each
1	115-120	A-21	4 1/2	Med.	3 60	.16
B-1	115-120	A-21	4 1/2	Med.	3 60	.30
2	115-120	PS-25	6 1/2	Med.	6 60	.30
B-2	115-120	PS-25	6 1/2	Med.	6 60	.60
RFL-2	115-120	R-40	6 1/2	Med.	6 24	1.05
RSP-2	115-120	R-40	6 1/2	Med.	6 24	1.20
4	115-120	PS-35	9 1/2	Mog.	10 24	1.20
B-4	115-120	PS-35	9 1/2	Mog.	10 24	1.75

Photographic Enlarger Lamps—White Bulb

Lamp No.	Voltage Range	Bulb	Lgth. In.	Base	Rated Life at 115V. Std. Hours	Price Each
111	115-125	S-11	2 1/2	SC Bay	25 120	.50
211	115-125	A-21	4 1/2	Med.	100 60	.36
212	115-125	A-21	4 1/2	Med.	100 60	.36
213	115-125	A-21	4 1/2	Med.	3 60	.36
302	115-125	PS-30	8 1/2	Med.	100 24	1.10

*Flash with dry cells (two or more).

†Flash with dry cells (two or more) or on standard lighting circuits.

WESTINGHOUSE LAMPS PROJECTOR AND REFLECTOR LAMPS

115-120-125 Volts



PAR-38



R-40 Bulb

Lamps may be burned in any position. PAR lamps are suitable for both outdoor and indoor use. Par-38 and 300-watt R-40 lamps should be burned only in porcelain sockets.

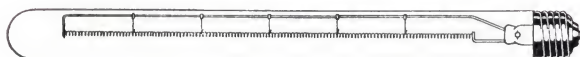
Projector Lamps

Watts	Bulb	Type	Base	Std. Pkg.	Price Each
75	PAR-38	Spot	Med. Skt.	12	\$1.55
75	PAR-38	Flood	Med. Skt.	12	1.55
150	PAR-38	Spot	Med. Skt.	12	1.55
150	PAR-38	Flood	Med. Skt.	12	1.55

Reflector Lamps

75	R-30	I.F. Spot	Med.	60	1.05
75	R-30	I.F. Flood	Med.	60	1.05
150	R-40	I.F. Spot	Med.	24	1.05
300	R-40	I.F. Spot	Med.	24	1.55
150	R-40	I.F. Flood	Med.	24	1.05
300	R-40	I.F. Flood	Med.	24	1.55

HOME APPLIANCE LAMPS



T-7 Bulb

Watts	Bulb	Base	Std. Pkg.	Clear	Inside Frosted
15	T-7	D.C. Bay.	60	\$0.25	\$0.28
15	T-7	Inter.	60	.38	-----
25	T-8	D.C. Bay.	60	.25	.30

RANGE OVEN AND BAKE OVEN LAMPS



A-15 Bulb



A-19 Bulb



A-23 Bulb

Range Oven Lamps 115-125 Volts

Watts	Bulb	Base	Std. Pkg.	Clear	All Frosted
40	A-15	Medium	120	\$0.25	-----
50	A-19	Medium	120	.40	-----
100	A-23	Medium	120	.60	-----

SUNLAMP

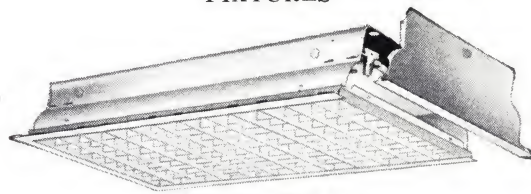


RS—275 Watt

Medium Base

Watts	Bulb	Description	Std. Pkg.	Price Each
275	R-40	RS I.F.	6	\$8.50

LEADER FLOURESCENT FIXTURES COMMERCIAL 24-INCH TROFFER SERIES FIXTURES



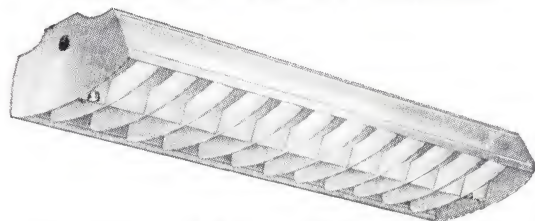
Model No. TWL-440

Illustrated is the 24-inch Troffer with steel eggcrate louver. This fixture is also available in open style (TW-440), baffled (TWB-440), or choice of flat diffusing glass enclosure (TWG-440), or Holographane lens (TWHG-440). May be had with moulded louver of destaticized plastic (TWLP-440). Available in both regular and shallow design for single or continuous row installation. Special hangers available.

Specifications: One-piece housing of 18 gauge steel. Exterior finished in aluminum gray baked synthetic enamel, interior in white, high gloss baked enamel. Finished with flange trim or with T-bar mounting construction. Wired units include UL and ETL approved high p.f. 2-lamp transformers and sockets, type FS easily replaceable starters. Conventional 110-125 volts, 60 cycle A.C. Other voltages on request. Also available for instant-start operation in regular height. Available, in regular height only, for use with Slimline lamps in 42-inch to 96-inch lengths.

Cat. No.	Lights	Lgth.	Dimensions, Inches		Reg.	Shal.	Shpg. Wt. Lbs.	Price Each
			Bar	Flange				
TWL-440	4	48	24	25 1/8	7 3/8	6	63	\$41.46
TW-440	4	48	24	25 1/8	7 3/8	6	60	33.83
TWB-440	4	48	24	25 1/8	7 3/8	6	61	35.08
TWG-440	4	48	24	25 1/8	7 3/8	6	88	41.46

COMMERCIAL "VARSITY" FIXTURE



Model No. V-240

A combination of quality lighting and moderate price. Gives the abundance of direct and indirect light of a luxury-type fixture at comparatively low cost. Especially suited to use where "close-seeing" is a constant requirement such as in school rooms, libraries, over drafting-boards, etc.

Specifications: Housing and channel of 18 gauge steel. Entire unit finished in white, high-gloss baked enamel. Baffle type louvers (easily removable for servicing) achieve 25°-35° shielding. Other shielding angles available on request. Fixture can be installed single, or in continuous rows with no couplers needed. Wired units include UL and ETL approved sockets, type FS easily replaceable starters, and UL approved HPF brick-type ballasts. Conventional 110-125 volts, 60 cycle A.C. Other voltages and instant-start operation available on request. Unit may also be had with translucent plastic side panels at slight additional cost, No. VP-240.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
V-240	2	48	12 3/4	6 1/4	31	\$16.79
VP-240	2	48	12 3/4	6 1/4	31	18.23

LEADER FLUORESCENT FIXTURES

FLUORESCENT COMMERCIAL "OFFICER" SERIES FIXTURES



Model No. VL-440

Especially suitable for stores, offices, and institutions. This fixture combines lighting efficiency with simple installation and easy maintenance. Use it as a single unit or in continuous runs — ceiling mounted or suspended. Adjustable Leader Direclite spot light attachments available (excellent for mounting over merchandise).

Specifications: Four 40-watt T-12 48-inch fluorescent lamps. Also Model VL-240 for two 40-watt 48-inch T-12 fluorescent lamps. Housing and channel of 20 gauge steel. Extruded translucent plastic side panels and moulded plastic louvers. Louvers swing down and out of the way for easy relamping and cleaning. Plastic destaticized, warp-proof, dust-resistant and color-fast. Finished in white high-gloss baked enamel. Wired units include UL and ETL approved sockets and easily replaceable starters. Conventional 110-125 volts 60 cycle A.C. Other voltages and instant-start operation available.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
VL-440	4	53 $\frac{3}{4}$	16 $\frac{1}{4}$	5 $\frac{1}{2}$	48	\$39.83
VL-240	2	53 $\frac{3}{4}$	10 $\frac{1}{4}$	5 $\frac{1}{2}$	28	24.19

Price is for 31° plastic louver.

COMMERCIAL SLIMLINE "VARSITY" FIXTURE



Model No. V-280

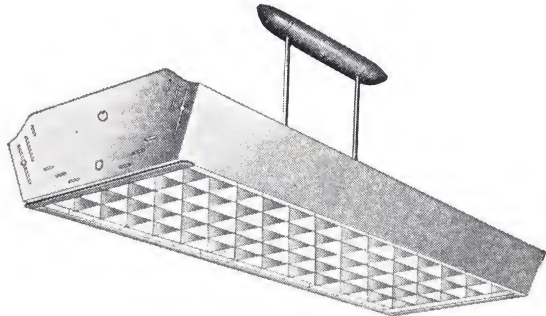
This model accommodates Slimline lamps in lengths up to 8 feet. Long fixtures obviously necessitate fewer fixtures for any given area — fewer to buy, to install, to lamp, to re-lamp. Both original and maintenance costs are held to a minimum. Slimline lamps provide instant-starting, choice of brightness levels, and single-pin bases for easy, quick re-lamping.

Specifications: Housing and channel of 18 gauge steel. Entire unit finished in white, high-gloss baked enamel. Baffle-type louvers (easily removable for servicing) achieve 25°-35° shielding. Other shielding angles on request. Fixture can be installed singly, or in continuous runs with no couplers needed. Instant-start 120, 200, 300 and 425 milliamperes operation. Uses either T-8 or T-12 75-watt Slimline lamps. Wired units include UL and ETL approved sockets and high p.f. ballasts. Unit may also be had with translucent plastic side panels at slight additional cost, No. VP-280.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
V-280-425	2	96 $\frac{3}{4}$	12 $\frac{3}{4}$	6 $\frac{1}{4}$	65	\$38.71
VP-280-425	2	96 $\frac{3}{4}$	12 $\frac{3}{4}$	6 $\frac{1}{4}$	65	40.15

LEADER FLUORESCENT FIXTURES

FLUORESCENT COMMERCIAL U.R.C. RESEARCH LUMINAIRE



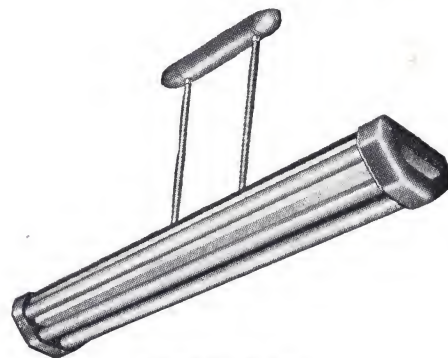
Model No. LRL-440

This fixture conforms to the technical specifications of the Utilities Research Commission (Better Light — Better Sight requirements). Leader offers it in excellent design, beauty and mechanical features. For use as a single unit or in continuous runs — suspended or mounted direct to ceiling.

Specifications: 2 or 4 40-watt 48-inch T-12 fluorescent lamps. Housing and channel of 20 gauge steel. Available with louvers (Model LRL-440) or with glass panels (Model LR-440). Entire side and bottom glass or louver hinged for easy maintenance. Exterior and end caps finished in rich silver-gray enamel. Interior finished in white high-reflecting, chip-proof baked enamel. Wired units include UL and ETL approved sockets, type FS easily replaceable starters, and two high p.f. 2-lamp ballasts. Conventional 110-125 volts 60 cycle A.C. Other voltages on request. Also available for instant-start operation.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
LRL-440	4	49 $\frac{3}{4}$	19 $\frac{3}{8}$	7	60	\$38.52
LR-440	4	49 $\frac{3}{4}$	19 $\frac{3}{8}$	7	60	34.19

FLUORESCENT COMMERCIAL HIGH-LEVEL OPEN-TYPE FIXTURES



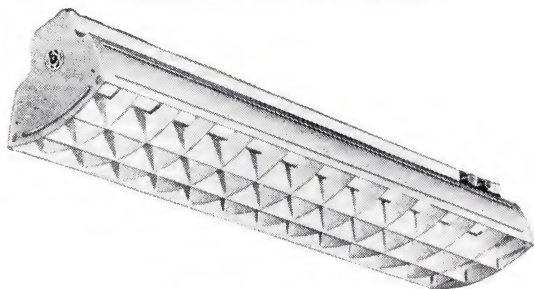
Model No. L-440

An all-purpose 4-light unit. Also available as Model No. L-240 for 2 lights. Widely used in supermarkets and small stores alike.

Specifications: Housing and end caps of 20 gauge steel. Finished in a rich satin aluminum. Parabolic reflectors are high-gloss, chip-proof baked enamel. UL and ETL approved sockets. Conventional 110-125 volts 60 cycles A.C. Other voltages on request. Instant-start operation available.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
L-440	4	50	9 $\frac{7}{8}$	5 $\frac{1}{4}$	29	\$22.07
L-240	2	50	8 $\frac{1}{2}$	5	15	13.61

LEADER FLUORESCENT FIXTURES

FLUORESCENT COMMERCIAL
"SCHOOLMASTER" SERIES

Model No. SM-240

Especially designed for schoolroom and hospital use. 60% downward and 40% upward light diffusion — same model, but with built-in germicidal lamp (SMG-240). Natural room ventilation causes circulation of air of room to pass over germicidal lamp.

Specifications: Two, three or four 40-watt fluorescent lamps, or 96-inch T-8 or T-12 Slimline lamps. Housing and channel of 18 gauge steel. Built for use as a single unit or in continuous runs. Standard louver cut-offs are 25-35 degrees and 25-45 degrees. Other shielding angles furnished on request. Entire unit finished in white high-gloss baked enamel. Wired units include UL and ETL approved sockets. Also available for instant-start operation. No connection couplers needed for continuous row installation. Swinging louvers for easy servicing.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
SM-240	2	48 $\frac{3}{8}$	12 $\frac{3}{8}$	8 $\frac{3}{16}$	33	\$21.05
SM-340	3	48 $\frac{3}{8}$	12 $\frac{3}{8}$	8 $\frac{3}{16}$	40	26.27
SM-440	4	48 $\frac{3}{8}$	12 $\frac{3}{8}$	8 $\frac{3}{16}$	45	28.42

With 30-watt Germicidal Unit Enclosed in Channel

SMG-240	2	48 $\frac{3}{8}$	12 $\frac{3}{8}$	8 $\frac{3}{16}$	40	28.47
SMG-340	3	48 $\frac{3}{8}$	12 $\frac{3}{8}$	8 $\frac{3}{16}$	45	33.69

With 60-Watt T-17 Lamps for Low
Surface-Brightness

This variation of the "Schoolmaster" has no louvers or other shielding, so that the abundance of quality light is fully used. Yet through the combination of the T-17 lamps and the efficient V-shaped reflector, there is no glare. Glossy paper under this light has little or no specular reflection. Ideal for schools, libraries, offices, etc.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
SM-240-LB	2	60	12 $\frac{3}{8}$	8 $\frac{3}{16}$	45	\$24.55

"Sunlighter" with Fluorescent Sun Lamp
Centered between Lighting Tubes

Same specifications as SM-240, above, except that this fixture combines a 20-watt fluorescent sun lamp with two 48-inch lighting tubes, or 40-watt sun lamp with 60-inch lighting tubes. Highest quality illumination combined with health-giving radiations reproducing sun's most desirable ultra-violet rays. Cast over a wide area for all-day, room-wide use. Sun lamp produces Vitamin D in effective quantities. Lamp stays cool in operation. Especially suited for use in classrooms, gymnasiums, assembly halls, hospitals, offices, factories, bowling alleys. Price does not include sun lamp.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
SMS-240-20	48	12 $\frac{3}{8}$	8 $\frac{3}{16}$	36		\$28.14
SMS-240-40	48	12 $\frac{3}{8}$	8 $\frac{3}{16}$	40		30.54

LEADER FLUORESCENT FIXTURES

FLUORESCENT COMMERCIAL "NEW
HORIZON" OPEN-TYPE SLIMLINE FIXTURES

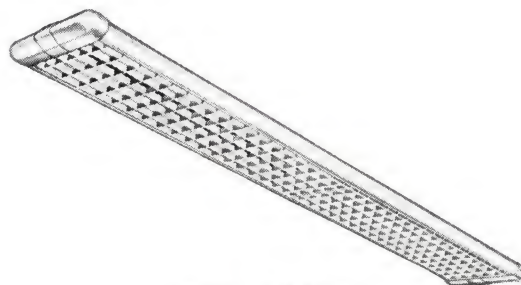
Model No. NHO-480

Widely used where mass lighting of merchandise is required. A fixture using a long, narrow lamp. Ingenious lamp holders featuring shake-proof, safety-factor chrome band enhance beauty of unit. Efficient operation and low maintenance cost.

Specifications: Housing and channel of 18 gauge steel. Over-all finish, white high-gloss baked enamel. Instant-start 120, 200, 300 and 425 milliamperes operation. Conventional 110-115 volts 60 cycle A.C. Other voltages on request.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
NHO-480	4	97 $\frac{1}{8}$	16 $\frac{1}{4}$	5 $\frac{1}{2}$	44	\$51.19
NHO-380	3	97 $\frac{1}{8}$	10 $\frac{1}{4}$	5 $\frac{1}{2}$	47	45.73
NHO-280	2	97 $\frac{1}{8}$	10 $\frac{1}{4}$	5 $\frac{1}{2}$	41	31.49

Price is for 425 ma.

FLUORESCENT COMMERCIAL "NEW
HORIZON" SLIMLINE SERIES FIXTURES

Model No. NHC-480

Used in commercial establishments where a distinctive and highly modern effect is desired. Moulded plastic louvers offer 45° or 31° shielding and provide maximum diffusion of efficient light from 8-ft. slimline lamps. Leader slimline units use one-piece steel channel embossed for rigidity and flush ceiling mounting.

Specifications: Extruded translucent plastic side panels and moulded plastic louvers. Louvers swing down to right or left. End caps of deep-drawn steel. Entire unit is finished in white high-gloss baked enamel. Wire units include UL and ETL approved sockets and two high p.f. 2-lamp ballasts. Conventional 110-125 volts, 60 cycle A.C. Other voltages on request. Instant-start operation is a feature. Directlite spot light attachments available. Available for 120, 200, 300 and 425 milliamperes operation.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
NHC-480	4	101 $\frac{1}{4}$	16 $\frac{1}{4}$	5 $\frac{1}{2}$	58	\$83.68
NHC-280	2	101 $\frac{1}{4}$	10 $\frac{1}{4}$	5 $\frac{1}{2}$	48	50.88

Price is for 425 ma.

LEADER FLUORESCENT FIXTURES STRIP LIGHTING FIXTURES



Model No. NHS-180

Furnished with or without reflector. Offers high lighting efficiency and low cost. Strictly a utility fixture, with one-piece grooved channel for adjustable sliding clamp hangers.

Specifications: 18 gauge steel one-piece channel. Units completely wired and ready to install include UL and ETL approved 95% p.f. corrected ballasts and sockets. Instant-start operation. Conventional 110-125 volts 60 cycle A.C. Wired for one, two or three Slimline tubes (Model No. NHS-280 for two tubes, and Model No. NHS-380 for three tubes). 120, 200, 300 and 425 milliamperere operation. Strip lights also furnished for 20-watt (Model No. S-120), 30-watt (Model No. S-130) or 40-watt (Model No. S-140) operation.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
NHS-180	1	96	4 1/4	4 3/8	21	\$24.08
NHS-280	2	96	13 1/4	5 1/4	27	29.38
NHS-380	3	96	13 1/4	5 1/4	35	42.42

Above prices for 425 ma.

S-120LPF	1	24	2 1/2	1 3/8	8	3.14
S-120HPF	1	24	2 1/2	2	8	6.13
S-130LPF	1	36	2 1/2	2	9	4.96
S-130HPF	1	36	2 1/2	2	9	7.90
S-140LPF	1	48	2 1/2	2	10	5.17
S-140HPF	1	48	2 1/2	2	10	8.57

INDUSTRIAL "STRATOLINER" SERIES



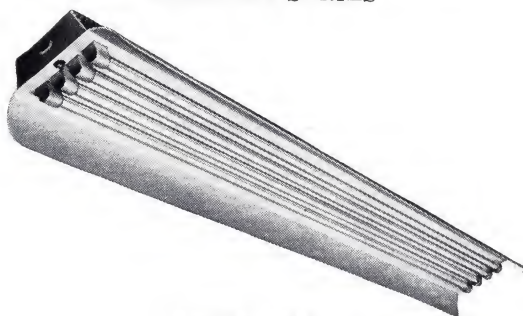
Model No. IUO-340

A heavy-duty lighting unit with all auxiliary equipment enclosed in an accessible, roomy channel. May be mounted singly or in continuous rows. Ideal for either direct to ceiling or suspension mounting. Stratoliner closed end design (IUP-340) gives highest degree of lamp shielding.

Specifications: Two or three 40-watt T-12 fluorescent lamps (also available for 100-watt T-17 lamps (IUO-2100 and IUP-2100)). Housing and channel of 20 gauge steel. Housing and exterior finished in gray baked enamel. Reflector finished in a choice of white baked enamel (IUOL series) or porcelain enamel (IUOP series). Units completely wired and ready to install include 95% p.f. corrected UL and ETL approved ballasts, twist-lock or turret type sockets (prices include turret sockets), and replaceable starters. Conventional 110-125 volts 60 cycle A.C.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
Enamel Finish						
IUOL-240	2	51	13 3/4	6 7/8	32	\$16.98
IUOL-340	3	51	13 3/4	6 7/8	34	22.37
IUOL-2100	2	61 3/8	13 3/4	6 7/8	45	27.05
Porcelain Finish						
IUOP-240	2	51	13 3/4	6 7/8	33	17.99
IUOP-340	3	51	13 3/4	6 7/8	35	23.36
IUOP-2100	2	61 3/8	13 3/4	6 7/8	46	28.43
Closed End						
IUP-240	2	53 1/8	13 3/4	6 7/8	35	21.73
IUP-340	3	53 1/8	13 3/4	6 7/8	37	27.11
IUP-2100	2	65 1/8	13 3/4	6 7/8	49	32.89

LEADER FLUORESCENT FIXTURES INDUSTRIAL "NEW HORIZON" SLIMLINE SERIES



Model No. NHI-180

A heavy-duty fluorescent unit that provides exceptionally high light intensity and streamlined styling. Easy installation, low operation and maintenance cost are desirable features. Constructed for continuous run wireway installations.

Specifications: One-piece channel and reflectors of 20 gauge steel. Reflector is furnished in two sections. Channel and reflector top surface finished in gray baked enamel. Reflector interior surface finished in white high-gloss baked enamel. (Porcelain reflectors also available.) Units completely wired and ready to install include 95% corrected p.f. ballasts, UL and ETL approved sockets. Instant-start operation is featured. Available for 120, 200, 300 and 425 milliamperere operation. Conventional 110-125 volts 60 cycle A.C. Other voltages on request.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
NHI-280	2	96 1/8	13 1/4	6 1/2	32	\$36.79
NHI-480	4	96 1/8	13 1/4	6 1/2	43	51.04

Price is for 425 ma.

INDUSTRIAL "ZEPHYRLITE" FIXTURES



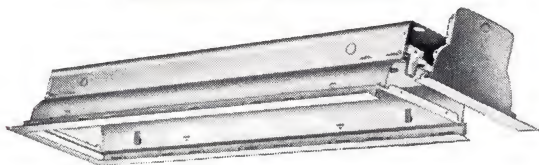
Model No. ZUO-240

A fixture in which advanced design and engineering provide the utmost strength and rigidity. For mounting direct to ceiling, or suspended either as individual units or in continuous rows. Closed end "Zephyrlite" (ZIU for 2-lamp operation) meets specialized lighting requirements where concentrated high level illumination is desired.

Specifications: 20 gauge all-steel deep drawn channel housing, for use with sliding clamp hangers. Channel and reflector top surface finished in gray baked enamel. Reflector finished in double coated white baked enamel, ZUOL series (or in porcelain, ZUOP series). Units completely wired and ready to install include UL and ETL approved 95% p.f. corrected ballasts, turret type sockets, and replaceable starters. Conventional 110-125 volts 60 cycle A.C. Other voltages on request. Also available for instant-start operation.

Cat. No.	Lights	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
		Length	Width	Height		
Enamel Finish						
ZUOL-240	2	51	13 1/2	6 1/8	26	\$16.24
ZUOL-340	3	51	13 1/2	6 1/8	29	21.60
Porcelain Finish						
ZUOP-240	2	51	13 1/2	6 1/8	27	17.22
ZUOP-340	3	51	13 1/2	6 1/8	30	22.60

LEADER FLUORESCENT FIXTURES RECESSED TROFFERS



Model No. T-240

Available with or without flange trim, and for T-Bar steel channel or wood furring mounting. A versatile fluorescent fixture, to be used singly or in continuous rows. The easily removable reflector provides quick accessibility to all auxiliaries. Special hangers may be ordered for any type of ceiling construction. Furnished in 12-inch, 24-inch and shallow-type fixtures.

Specifications: Housing and channel of 18 gauge steel. Interior finished in white high-gloss enamel. Exterior finished in aluminum-gray baked synthetic enamel. Fixtures furnished as open (T-240), glass enclosed (TG-240), baffled (TB-240) or louvered (TL-240). Wired units include UL and ETL approved high p.f. 2-lamp transformers and sockets, type FS easily replaceable starters. Conventional 110-125 volts 60 cycle A.C. for 1, 2 or 3 40-watt lamps. Other voltages on request. Instant-start operation available. Length 48 inches.

Cat. No.	Lights	Width, In.		Height, In.		Shpg. Wt. Lbs.	Price Each
		T-bar	Flange	Regular	Shal-low		
T-140	1	12	13 1/16	7 3/8	6	31	\$18.24
T-240	2	12	13 1/16	7 3/8	6	33	19.51
T-340	3	12	13 1/16	7 3/8	6	41	24.72

Low Surface Brightness Troffer Unit

Same as recessed troffer above, except that fixture has no louvers or other shielding, so that light is used to the fullest. Yet there is complete seeing comfort to the eye. No glare. Uses two T-17 lamps for low surface-brightness. Alzac liners available if desired. Length 60 inches. Available in regular height only.

Cat. No.	Lights	Width, In.		Hght, In.		Shpg. Wt. Lbs.	Price Each
		T-bar	Flange	Regular	Shal-low		
T-240-LB	2	12	13 1/16	7 3/8	52		\$26.54

"NEW HORIZON" SLIMLINE TROFFER FIXTURE



Model No. NHT-280

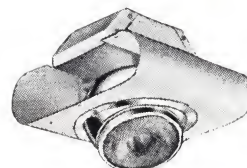
The New Horizon Troffer is engineered to utilize the manifest advantages of Slimline lamps and afford new facilities for modern designing and architecture. New Horizon Slimline units offer many advantages in efficiency of operation, low maintenance cost and versatility of surface brightness with better redirection of light flux and higher light values.

Specifications: One, two or three 96-inch Slimline tubes. Housing and channel of 18 gauge steel. Finished in white high-gloss baked enamel. Instant-start 100, 120, 200, 300 and 425 milliamperes operation. Regular conventional 110-125 volts 60 cycle A.C. Other voltages on request. Length 96 inches.

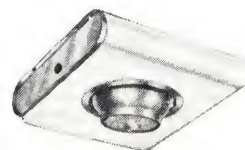
Cat. No.	Lights	Width, In.		Height, In.		Shpg. Wt. Lbs.	Price Each
		Without Flange	With Flange	Regu-lar	Shal-low		
NHT-280	2	12	13 1/16	7 3/8	6	66	\$45.22

LEADER INSERT AND CORNER BOX UNITS

ADJUSTABLE "DIRECLITE" SPOTLIGHT ATTACHMENT



Model No. IS-2



Model No. CS-2



Model No. 4WS-2

Use of the "Direclite" spotlight brings greatly increased sales appeal through effective high-lighting of merchandise. Available for 2-, 3- and 4-light fixtures, and can be installed either at the

end of the single unit, between units in a continuous run or at inter-sections of continuous rows. For use with VL, NHC and NHO type fixtures. Furnished with flat glass or metal cover or curved type controlens.

Cat. No.	For Use With	Dimens, Inches			Shpg. Wt. Lbs.	Price Each
		L.	W.	H.		
IS-2	2- or 3-lamp units	10	10 3/16	5 1/2	4	\$10.80
IS-4	4-lamp units	10	16 1/16	5 1/2	5	11.16
CS-2	2- or 3-lamp units	10 3/16	10 3/16	5 1/2	6	15.84
CS-4	4-lamp units	16 3/16	16 3/16	5 1/2	8	16.56
4WS-2	2- or 3-lamp units	10 3/16	10 3/16	5 1/2	4	19.08
4WS-4	4-lamp units	16 3/16	16 3/16	5 1/2	5	20.16
ES-2	2- or 3-lamp units, 2 end cap	12	10 3/16	5 1/2	4	10.80
ES-4	4-lamp units, 1 end cap	12	16 3/16	5 1/2	5	11.16
S-2	2- or 3-lamp units, 2 end caps	14	10 3/16	5 1/2	4	10.80
S-4	4-lamp units, 2 end caps	14	16 3/16	5 1/2	5	11.16

LEADER CEILING OR SUSPENSION MOUNTINGS



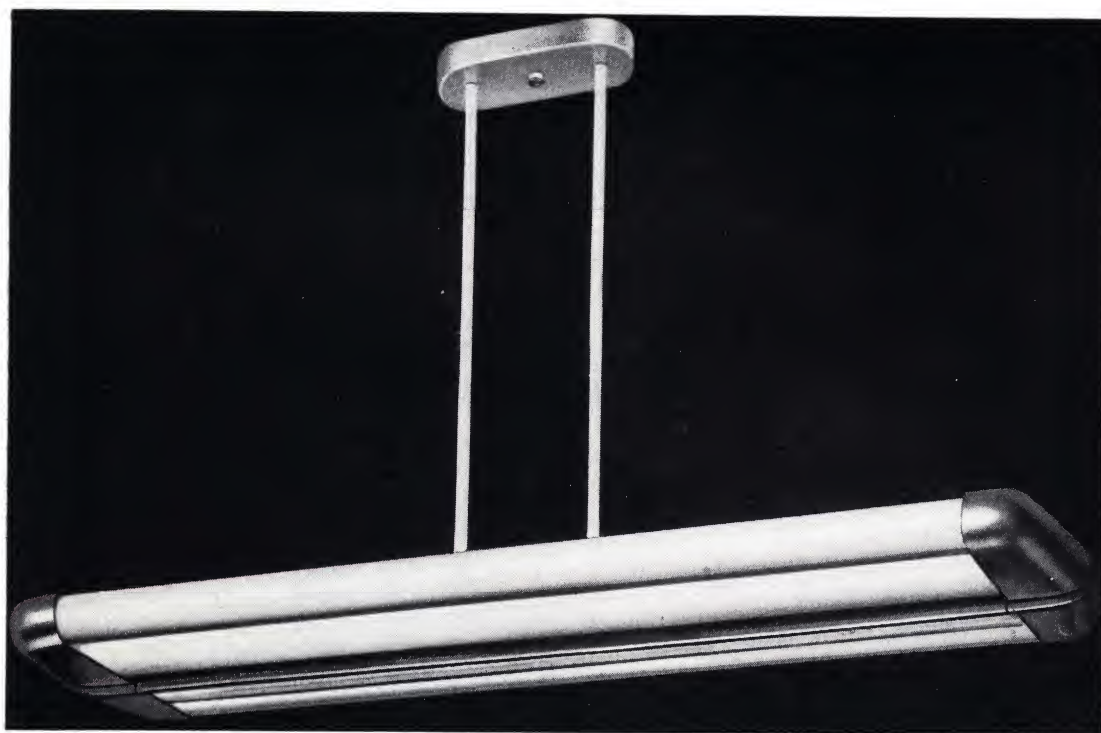
C-100

C-210
Twin Stem

Hangers provide easy installation and maximum adjustment. Twin stem and canopy assembly (C-210) includes two 24-inch stems. Single stem and canopy assembly (C-100) includes one 24-inch stem.

Cat. No.	Description	Price Each
C-210	Twin Stem and Canopy Assembly....	\$2.32
C-100	Single Stem and Canopy Assembly....	1.22

LYTRON by LIGHTOLIER — 4 LIGHT
With Solo'stal Hanger

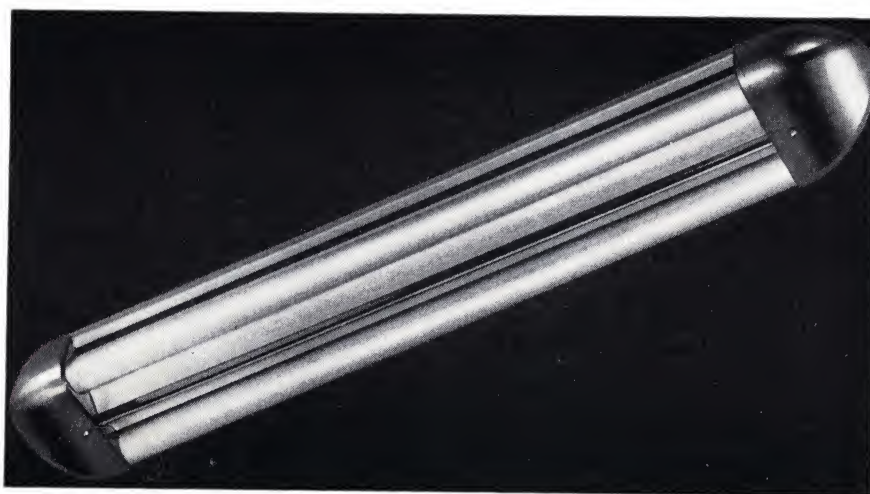


Lytron Lightoliers bring you these specific advantages: fresh, functional, attractive styling; improved lighting efficiency; permanent Chromium and Lumo-White finish; complete selection of sizes and wattages for suspended or flush mounting; die cast chromium ends that slip on, slip off; curved reflectors for efficient light distribution.

No.	Description	Dimensions, Inches			List Price
		Length	Width	Depth	
7042	4-20W	27 $\frac{11}{16}$	10 $\frac{1}{4}$	3 $\frac{1}{2}$	\$21.65
7043	4-25W	36 $\frac{11}{16}$	10 $\frac{1}{4}$	3 $\frac{1}{2}$	28.30
7049	4-40W	51 $\frac{11}{16}$	10 $\frac{1}{4}$	3 $\frac{1}{2}$	38.85

No. 7009 Solo'stal Hanger can be used on any 4-light Lytron for stem installation. Length 32 $\frac{1}{4}$ ".

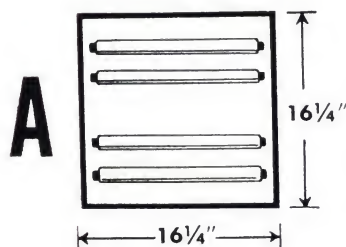
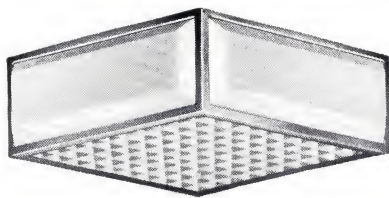
LYTRON by LIGHTOLIER — 2 LIGHT



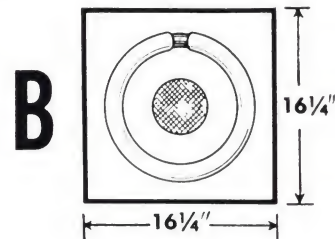
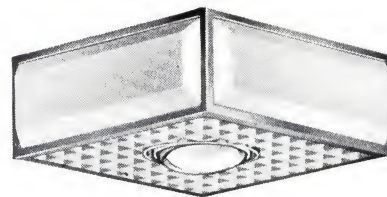
7023—25W

7022: 2 light—20W. Brilliant, ever-bright, "jewelry" finish. Length 31".	
Width 6 $\frac{1}{4}$ ". Depth 2 $\frac{7}{8}$ ". Low power factor.....	\$14.30
7023: 2 light—25W. Die-cast ends—smooth, bright and attractive. Length 40 $\frac{3}{4}$ ".	
Width 6 $\frac{1}{4}$ ". Depth 2 $\frac{7}{8}$ ". Low power factor.....	17.65
7024: 2 light—40W. Length 55 $\frac{7}{8}$ ". Width 6 $\frac{1}{4}$ ". Depth 2 $\frac{7}{8}$ ". Low power factor.....	26.10

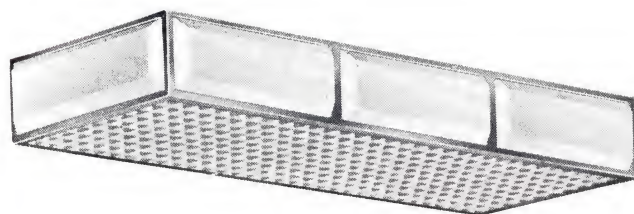
Mitchell Module Lighting System



Module A
Uses 4 14-Watt
T-12 15" Type F
Lamps
Module A2
Uses 2 14-Watt
Lamps



Module B
Uses 1 32-Watt
12" diameter
Circline Lamp and
1 Par/3SP Spot or
1 Par/3FL Lamp

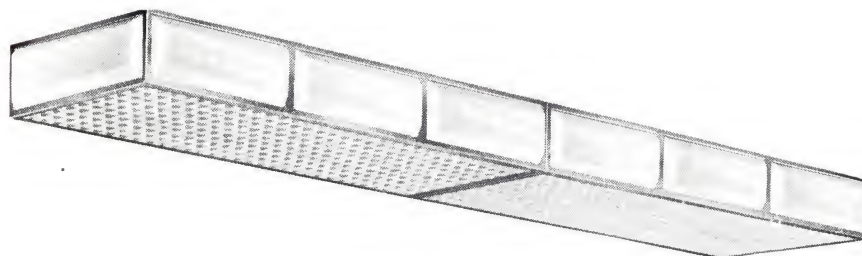
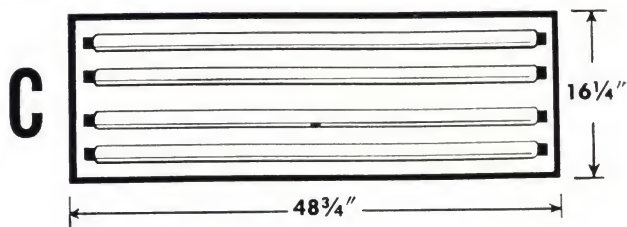


Module C
Uses 4 40-Watt T-12
48" Type F Lamps

Module CS
Uses 4 40-Watt 48T12 Slimline Lamps

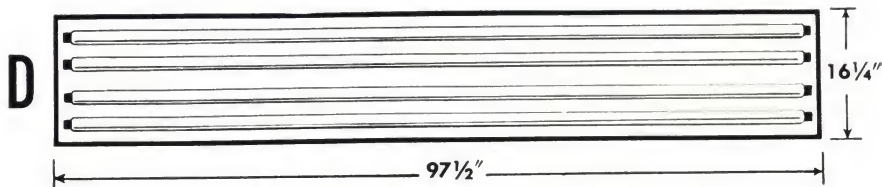
Module C2
Uses 2 40-Watt Bi-Pin Lamps

Module C28
Uses 2 40-Watt Single Pin Slimline Lamps



Module D
Uses 4 75-Watt T-12
425 milliamp
Slimline Lamps

Module D2
Uses 2 75-Watt 96T12
Single Pin Slimline Lamps



The word "module" comes from a Latin word meaning "standard of measurement." The standard of measurement or module of the MITCHELL MODULE system is $16\frac{1}{4}$ inches. Thus, the plan dimensions of MODULES A and B are $16\frac{1}{4} \times 16\frac{1}{4}$ inches. MODULES C and D are exact multiples of this standard of measurement.

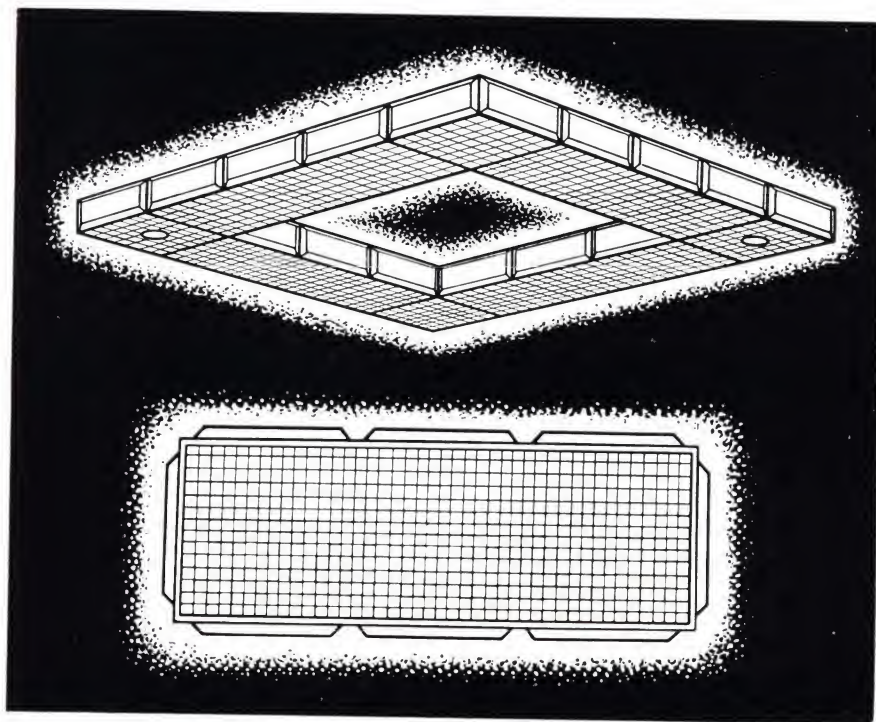
A module is a unit of standardized measurement that makes possible the use of multiples of the unit in various flexible combinations so that they form a complete structure of uniform, harmonious proportions.

Mitchell Module Lighting System

Advantage—

Equal brightness throughout

The ingenious plastic side and end panels, which are an exclusive feature of all Mitchell Modules, provide equal brightness on all sides and ends. A consistent color temperature is maintained throughout the entire Module. Regardless of the lighting pattern, you will never find disturbing, undesirable dark sides or ends in any Module lighting system. No other system achieves the "all-over brightness control" of a Mitchell Module installation.



The New Ideal of Lighting—There is no limit to the creative use of Module — the only existing mass-produced lighting system that offers all the advantages of custom installation for every type of commercial and institutional establishment.

No Dark Spots in The Module Spotlight—Module B provides vivid down punch highlighting for merchandising and displays — without the dark spots created by ordinary spotlight units. Module B accommodates either a 150-watt PAR/3SP Spot or a 150-watt PAR/3FL Flood Lamp — plus a 32-watt

12-inch diameter fluorescent Cireline lamp which maintains the equal brightness common to all Module units.

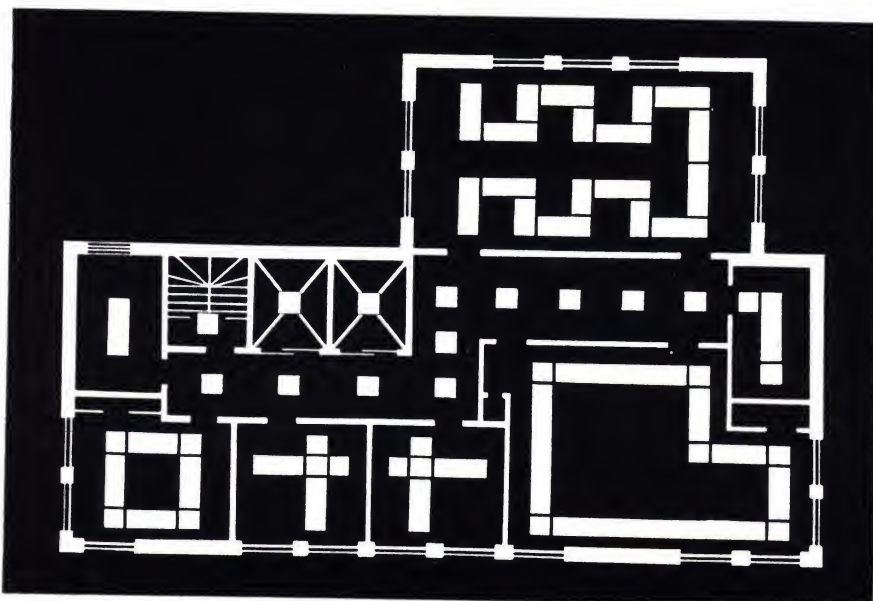
Ordinary Fluorescent—Metal ends of fixtures create objectional dark spots. Spotlight sides and ends are always dark —to mar the appearance of the installation.

Matching ordinary fixtures are not available for diversified applications. Fixtures are unrelated in design, dimension and material. Impossible to achieve a unified relationship.

Advantage—

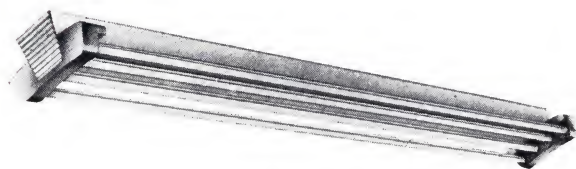
Harmonious throughout

Mitchell Module makes it possible to illuminate all rooms and areas of an entire building interior with matching Modules, used singly or in combination as required to fulfill proper lighting requirements. Regardless of the area or function, the Modules used will blend harmoniously throughout. Their uniform styling, related proportions and perfect integration create a single, unified lighting "family" of handsome distinction and unsurpassed lighting excellence.

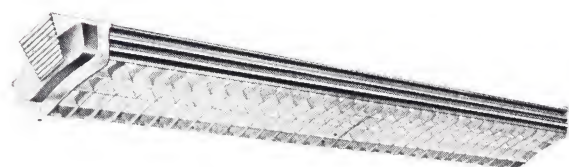


MITCHELL SLIMLINE FLUORESCENT FIXTURE

No. 3020 FOR 4-8 FT. SLIMLINE LAMPS



Open Type



With Louver Shield

A brilliant commercial lighting fixture. Features an exclusive construction in two 4-foot sections, all ready to slide together to make a single sturdy 8-foot unit. Hanging and installing is an easy one-man job. An 8-foot fixture packed in a 4-foot carton. Easier to handle and install than any other 8-foot fixture available. No hazards, no struggling with ordinary fragile, bulky 8-foot fixtures. The last word in convenient, versatile Slimline design. Sockets are enclosed in Satin Aluminum die cast housing. Channel is of heavy gauge steel finished in Baked White Enamel. Where shielding is desired, a Model No. 340 Louver is attached to the open-type fixture. Provides 30° lateral shielding and 20° longitudinal shielding due to its full depth design. Louver has exclusive trunk-lock hinge mechanism for relamping and maintenance convenience.

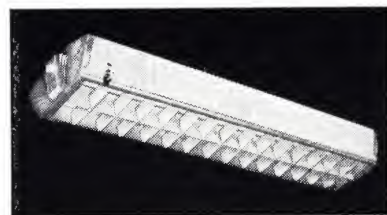
Ideal for continuous row installation direct to ceiling, or on stems. May be used individually, surface or stem mounted.

Dimensions 96¼ inches long, 10⅜ inches wide, 5⅝ inches deep. Operates on 110-125 volts, 60 cycle A.C. Bears Underwriters label. Ideal attractive lighting for sales and display areas and for business offices.

Model No.	Description	Shpg. Wt. Lbs.	List Price
3020	"Slimline" Fixture using 4-8 ft. Slimline lamps; wired with 200 milliamp ballasts..	65	\$68.95
3020B	Same, wired with 300 milliamp ballasts	71	82.95
340	Louver and all mounting brackets for Slimline Fixture	25	17.50
031ST	Canopy and Stem Set (2 required per fixture) 36-inch stem	3	2.50

MITCHELL COMMERCIAL FLUORESCENT LUMINAIRE

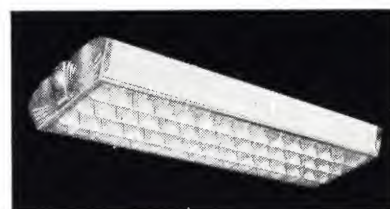
MODELS No. 3009 AND 3010—
2-40 WATT LAMPS



Soft, pleasing, glareless light. Full-depth metal louvers and ceramic treated glass side panels. Satin aluminum end plates with luminous apertures. Model No. 3010 has Instant-Start, Patented "One-man" Quick-mount. All steel. White baked enamel. Wired. Fleur-O-Lier, E.T.L. and U.L. approved. For suspension, uses Canopy and Stem Set 032ST (extra). 110-125 volts, 60 cycle A.C. Power Factor over 90%. Stroboscopic corrected. 48 inches long, 12½ inches wide, 8¼ inches high.

Model No.	Description	Less Bulbs
3009	2-40 watt Louvered Luminaire.....	\$35.50
3010	2-40 watt Louvered Luminaire with Instant-Start	43.00
032ST	Canopy and Stem Suspension Set....	3.25

MODELS No. 3011 and 3012—
4-40 WATT LAMPS



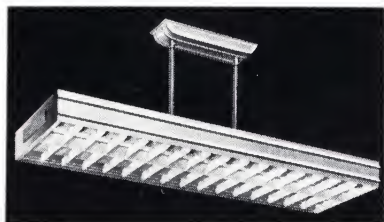
A beautiful and compelling vehicle of light for offices, stores and buildings demanding the latest and best. All the high intensity illumination which 4-40 watt fluorescent lamps can provide, expertly utilized to produce abundant but soft and glareless daylight. Full depth metal louvers, ready to hang, and ceramic treated glass panels on sides. Satin aluminum end plates.

Model No. 3012 has Instant-Start feature giving instantaneous starting. No starters needed. All-steel wireway channel and reflector finished in white baked enamel. Fleur-O-Lier, E.T.L. and U.L. approved. Power factor over 90%. Stroboscopic corrected. Completely wired, ready to hang. For suspension hanging, uses Canopy and Stem Set No. 032ST, which is extra.

Operates on 110-125 volts 60 cycle A.C. 48 in. long, 17 in. wide, 8¼ in. high. Shipping weight, 56 lbs.

Model No.	Description	Less Bulbs
3011	4-40 watt Louvered Luminaire.....	\$49.95
3012	4-40 watt Louvered Luminaire with Instant-Start	64.95
032ST	Canopy and Stem Suspension Set....	3.25

**MITCHELL COMMERCIAL
FLUORESCENT LIGHTING**
"WAFER-THIN" LOUVERED LUMINAIRE
No. 3032—4-40 Watt Lamps

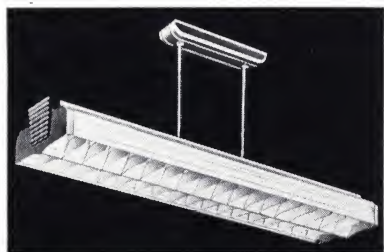


Easy to clean and maintain. Ruggedly constructed throughout. All-steel body and louver completely eliminates glass breakage. With a single model, this unit is adaptable for every type of installation—suspension mounting, surface mounting, individually or in continuous rows. Vertical sides and ends permit all-around flush alignment to achieve desirable architectural effects and patterns. Heavy gauge all-steel construction throughout. Sides and ends finished in satin aluminum — louver finished in durable baked white enamel. Convenient knockouts are provided at top of channel for double stem mounting or for flush mounting to outlet box. With E.T.L. brick type ballasts, approved lampholders and starters. For 110-125 volts 60 cycle A.C. operation. Bears Underwriters' label. Comes completely assembled, wired and ready to hang. Packed one to a carton.

Model No.	Description	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
No.		Length	Width	Depth		
3032	Luminaire	49	16	3 3/4	38	\$39.50
032ST	Stem Set	36			4 1/2	3.25

SCHOOL LIGHTING UNIT

Model No. 3031—2-40 Watt Lamps

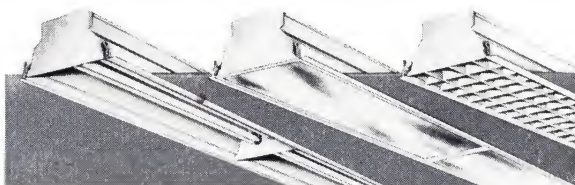


Brings truly economical and super-efficient lighting to classrooms, libraries, public buildings and institutions. Features efficiently designed louver and indirectly illuminated sides which eliminate dark areas. Constructed entirely of metal; has no glass shielding or panels to break or clean. Louver may be completely removed simply by pressing the slotted hangers. May be flush or suspension mounted, individually or in continuous rows.

Finished in baked white enamel, with satin aluminum decorative metal end pieces. Uses latest E.T.L. approved brick type ballasts (High Power Factor). For individual suspension mounting, use Double Stem Set 032ST. For continuous row suspension mounting specify Single Stem Set 031ST. Individually packed. Operates on 110-125 volts, 60 cycle Alternating Current. Approved by Underwriters' Laboratory.

Model No.	Description	Dimensions, Inches			Shpg. Wt. Lbs.	Price Each
No.		Length	Width	Depth		
3031	Luminaire	48 1/2	11 3/8	5 3/4	38	\$26.50
032ST	Canopy and Stem Set	36			4 1/2	3.25
031ST	Canopy and Stem Set	36			3	2.50

MITCHELL FLUORESCENT TROFFERS



Open Type, Glass Shielded, and Louver Shielded Troffers

Mitchell Troffers provide attractive high intensity recessed lighting for offices, stores, lobbies, banks, bowling alleys and public buildings. Engineered for more attractive and effective Commercial Lighting, with the utmost simplicity of installation.

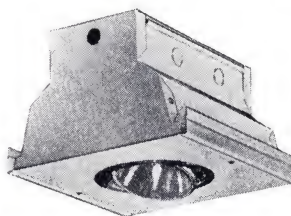
The Mitchell Troffer System consists of:

1. "Basic Unit" No. 3040, 3041 and 3042 (reflector and wire-way channel wired with ballasts and starters) for 2-40 watt lamps, or for 3-40 watt lamps, or INSTANT-START.
2. Hinged Glass Frame, No. 323, of ribbed prismatic glass. Slips into "basic unit" where glass shielding is desired. Special hinge hooks permit frame to swing down freely for easy relamping and cleaning.
3. Hinged Metal Louver, No. 324. Slips into "basic unit" where louvered shielding is desired. Has exclusive swing-hinge feature.
4. End Plate No. 321 for ends of continuous rows, and Coupling Plate No. 322 to connect units together in rows.

For Acoustical ceilings of Tee-Bar snap-in block construction, the "basic unit" snaps right into place — requires no accessory fittings. For other types of ceilings — plaster and lath, acoustical tile, etc. — a complete line of simple accessory parts is provided to assure easy, accurate permanent mounting.

Model No.	Description	List Price
3040	2-40W Basic Open Unit.....	\$23.95
3041	2-40W Basic Open Unit, Instant-Start..	31.45
3042	3-40W Basic Open Unit.....	35.00
321	End Plates for Ends of Continuous Rows .....	.70
322	Coupling Plate for Connecting two Units together	1.45
323	Hinged Glass Frame to provide glass shielding	9.00
324	Hinged Louvered Frame, for louvered shielding	9.00
325	Flange Clip Rail (2 req. per unit).....	.20
326	End Trim Strip (not req. for T-Bar installation) .....	.20
327	Slide Clamp Hanger.....	1.10
328	Aligner Bar .....	.44
329	3/8" Rod and Nuts, 36" long.....	.62
330	Suspension Strap with toggle bolt and washer .....	.75
331	Adjustment Strap for 2 bolts and nuts .....	.25
332	Suspension Clamp for use with Part No. 330 .....	.25

No. 347 TROFFER SPOTLIGHT

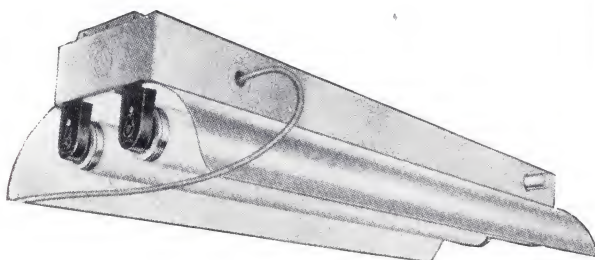


For individual or inline mounting with Mitchell Troffer System Basic Units Models Nos. 3040, 3041, and 3042.

Uses 1-150 watt PAR-38 projector spot or flood lamp.

MITCHELL FLUORESCENT LIGHTING

MODEL 2060 ALL-PURPOSE INDUSTRIAL UNIT



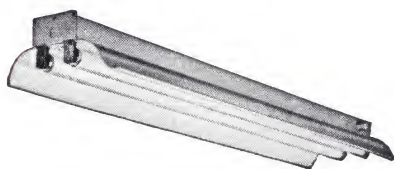
Using two 20-watt fluorescent lamps. For high intensity, localized lighting or production, assembly, and inspection lines, over benches, machines, tables, etc. Comes complete with 6-ft. cord and plug. Knockouts also are provided for rigid (conduit) mounting, singly, in twin groups, or continuous rows. 8-ft. chains also available extra. Strong, sturdy steel wireway construction, with knockouts both ends. Has steel reflector. Units furnished in attractive gray outside, high gloss, hard finish white inside. Latest type Ballasts, sockets and FS-2 starters. 110-125 volts, 60 cycles, A.C. Dimensions 4½ inches high, 24 inches long, 9½ inches wide.

Model No.	Description	Shpg. Wt. Lbs.	List Price
2060	2-20 Watt Industrial Unit.....	8	\$10.25

The above model can be furnished with high power factor Tulamp ballasts at \$14.50. If desired, specify 2060PF.

MODEL No. 2098 INDUSTRIAL UNIT

For Two 40-Watt Lamps

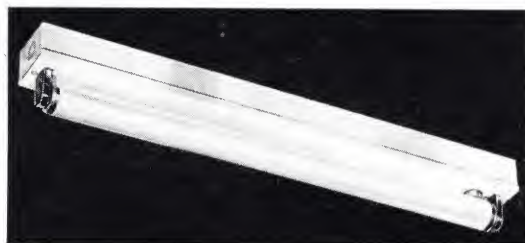


Provides comfortable fluorescent illumination for all-purpose application in any plant or shop. Can be chain-suspended singly or in continuous rows — or conduit or rod suspended. Strong steel construction, with knockouts on top and at both ends. Bracket at each end for chain hanging. Unit is finished in durable gray enamel outside. Reflector has two coats of hard glossy baked White Enamel for maximum light output. Has approved "longfellow" ballast. Starters accessible on side of channel. Designed for extremely simple, economical installations. Operates on 110-125 volts, 60 cycle A.C. 48 inches long, 11 inches wide, 5½ inches deep. Bears Underwriters' Label.

Model No.	Description	Shpg. Wt. Lbs.	List Price
2098	2-40 Watt Industrial Unit.....	17	\$13.35

MITCHELL FLUORESCENT LIGHT STRIPS

FOR 20-WATT AND 40-WATT FLUORESCENT LAMPS



Mitchell Strip Lighting in the form of ceiling lines provides exceptionally attractive appearance. Ideal for flooding large areas with cool, high-level illumination. Also provides the low-cost answer for installations requiring smart cove lighting.

Achieves extremely effective supplementary display lighting. Compact and adaptable for either vertical or horizontal installation. Can be equipped with colored lamps for special effects. Illumination of this type is also ideal for theatres, restaurants, taverns, clubrooms, etc.

Mitchell Strip Lighting is available in three distinctive units: Model No. 4002, using single 20 watt lamp; Model No. 4004, using single 40 watt lamp; Model No. 4005, 8 foot strip, employing two 40 watt lamps. For 110-125 volts, 60 cycle A.C.

Model No.	Lamps Watts	Length	Width	Height	Std. Pkg.	Wt. Lbs.	Price* Each
4002	1-20	25¼	2½	1½	12	44	\$4.35
4004	1-40	49½	2½	1½	6	56	8.65
4004PF	(High Power Factor)						12.35
4005	2-40	98½	2½	1½	1	18	19.45

*Price less lamps.

HARVSTONE FLUORESCENT LIGHTING FIXTURES

MODEL S-249—INDUSTRIAL UNIT



No. S-249

Economical, high intensity lighting for every industrial use. Drop reflector — a rugged, dependable industrial unit. For rigid mounting, chain suspension and continuous row mounting.

Reflector is finished in hard, glossy white baked enamel for maximum light output. Wireway channel is finished in smooth, durable grey. Incorporates latest type ballasts, sockets and FS-4 starters. Starters are easily accessible. Operates on 110-125 volts, 60 cycles A.C. Size: 48 inches long, 13 inches wide and 5½ inches deep.

Cat. No.	No. of Lamps	Type	Rating	Car- ton	Price Each — Advance Ballast	GE or Jeff. Ballast
S-249	2-40	13" FEFL	HPF	2	\$11.90	\$13.55

HARVSTONE FLUORESCENT LIGHTING FIXTURES STANDARD SLIMLINE LUMINAIRES



No. 9607



No. 9606

All Harvstone Slimline models provide instant-starting — no undesirable flickering and no starters required. Maintenance costs are greatly reduced. Designed for easy installation in any commercial interior. Either flush or pendant mounted, individually or in continuous rows. These Slimline fixtures use 8-foot Slimline lamps. Available in 200 and 300 milliamps with T-8 lamp. Also 425 Ma. T-12 lamps. Sockets are completely concealed in housing. Heavy gauge steel channel finished in durable baked white enamel. Fluted plastic sides. UL approved. Operates on 110-125 volts, 60 cycles A.C. These units are also available in 72-inch, 64-inch and 48-inch lengths.

Cat. No.	No. of Lamps	Type	Rating MA	Car-ton	Price Each	
					Advance Ballast	GE or Jeff. Ballast
9600	2-T8	Open	200	2	\$31.35	\$33.00
9601	2-T8	Louvre	200	2	49.10	50.80
9602	2-T8	Open	300	2	35.90	37.55
9604	2-T12	Open	425	2	38.90	40.55
9606	4-T8	Open	200	2	47.45	50.85
9607	4-T8	Louvre	200	2	65.20	68.55
9608	4-T8	Open	300	2	56.55	59.90
9609	4-T8	Louvre	300	2	74.35	77.70
9610	4-T12	Open	425	2	62.55	65.90
9611	4-T12	Louvre	425	2	80.35	83.70

THE "DIPLOMA" LUMINAIRE



No. D3

Economical and super-efficient lighting for classrooms, libraries, public buildings and institutions. Constructed entirely of metal — no glass shieldings or panels to break or clean. An exclusive feature of the louvre is its special locking and hanging principle that simplifies maintenance. This feature prevents accidental dropping of the louvre, and permits quick, simple relamping and cleaning. Top reflector rails are easily removable for immersion washing.

Diplomas may be flush or mounted, individually or in continuous rows. Finished in baked white enamel with aluminum decorative end pieces. Operates on 110-125 volts, 60 cycles A.C. UL approved.

Surface Mount

Cat. No.	No. of Lamps	Type	Rating	Car-ton	Price Each	
					Advance Ballast	GE or Jeff. Ballast
D1	2-40	Louvre	HPF	1	\$22.10	\$23.80
D3	4-40	Louvre	HPF	1	31.00	34.40
D6	Double Stem and Canopy Set				2.20	
D7	Single Stem and Canopy Set				2.20	

HARVSTONE FLUORESCENT LIGHTING FIXTURES DELUXE SLIMLINE LUMINAIRES



No. SL-3



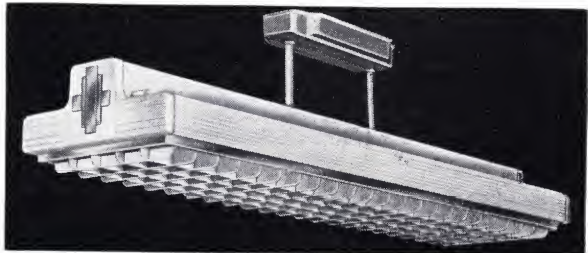
No. SO-4

These outstanding 2 and 4 lamp Slimline Luminaires combine luxurious beauty with the maximum in lighting. Instant starting — no undesirable flickering and no starters required. Designed for easy installation. Either flush or pendant mounted, individually or in continuous rows. Models SL3 and SL5 Hinged Louvre can be attached on the basic open type fixture in just seconds. Just pull lever to unhinge for easy relamping and cleaning.

They use 8-foot Slimline lamps. Available in 200 and 300 milliamps with T8 lamp. Also 425 ma. T-12 lamps. Completely concealed sockets. Heavy gauge steel channel finished in baked white enamel. Slotted metal sides permit soft edge lighting. Also may be had in fluted plastic sides. Precision made end housing with chrome trim. 110-125 volts, 60 cycles A.C. UL approved. These units are also available in 72-inch, 64-inch and 48-inch lengths.

Cat. No.	No. of Lamps	Type	Rating MA	Car-ton	Price Each	
					Advance Ballast	GE or Jeff. Ballast
SO2	2-T8	Open	200	1	\$35.25	\$36.90
SL3	2-T8	Louvre	200	1	57.55	59.25
SO4	4-T8	Open	200	1	54.35	57.75
SL5	4-T8	Louvre	200	1	76.55	79.95
SO6	2-T8	Open	300	1	41.55	43.25
SL7	2-T8	Louvre	300	1	63.85	66.55
SO8	4-T8	Open	300	1	64.80	68.15
SL9	4-T8	Louvre	300	1	86.85	92.25
SO10	2-T12	Open	425	1	43.80	45.45
SL11	2-T12	Louvre	425	1	66.05	67.05
SO12	4-T12	Open	425	1	68.90	72.25
SL13	4-T12	Louvre	425	1	91.20	93.20

STARLITER



No. LL3

Either surface or suspended mounted, individually or in continuous rows. Distinctive design for efficient, mellow lighting. Soft and glareless. High intensity illumination. Easy to install.

Choice of diffused glass, plastic or decorative louvred steel side panels. Plastic shipped unless otherwise specified. All steel, baked white enamel with chrome trimmed ends. Full depth metal louvres with 35/45 cut-off. UL approved.

Cat. No.	No. of Lamps	Type	Rating	Car-ton	Price Each	
					Advance Ballast	GE or Jeff. Ballast
LL1	2-40	Louvre	HPF	1	\$23.45	\$25.10
LL3	4-40	Louvre	HPF	1	32.55	35.90
S & C Stem and Canopy Set for above units					\$2.20	

HARVSTONE FLUORESCENT LIGHTING FIXTURES DELUXE SLIMLINE LUMINAIRES



No. W32



No. W33

These distinctive open and louvred Slimline Luminaires are smart in appearance and outstanding in efficiency. The latest developments and technical advances are combined to achieve the highest lighting performance.

They permit a wide variety of applications where controlled, widespread light is desired. Versatile lighting fixtures which will increase visual comfort by reducing glare to a minimum. Either suspended or surface mounted individually or continuously. Hinged louvers permit fast, easy relamping and ease of cleaning. Top reflector provides increased downward light. Basic unit and accessories individually packed. 110-125 volts, 60 cycles A.C. UL approved. These units are also available in 72 inch, 64 inch and 48 inch lengths.

Cat. No.	No. of Lamps	Type	Rating MA	Car- ton	Price Each	
					Advance Ballast	GE or Jeff. Ballast
W30	2-T8	Open	200	2	\$35.90	\$37.60
W31	2-T8	Louvre	200	2	59.65	61.35
W32	4-T8	Open	200	1	59.40	62.80
W33	4-T8	Louvre	200	1	82.60	86.00
W40	2-T8	Open	300	2	41.15	43.85
W41	2-T8	Louvre	300	2	64.85	67.55
W42	4-T8	Open	300	1	69.70	75.10
W43	4-T8	Louvre	300	1	93.30	98.70
W50	2-T12	Open	425	2	43.35	44.35
W51	2-T12	Louvre	425	2	66.85	67.85
W52	4-T12	Open	425	1	74.05	76.05
W53	4-T12	Louvre	425	1	97.75	99.75

DELUXE SLIMLINE STRIPS



No. M4

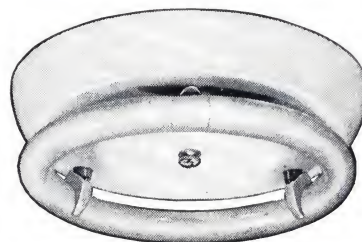
Ideal for flooding large areas with cool, high-level illumination. Compact and adaptable for either vertical or horizontal installation. For lighting large waiting rooms, hotel and building lobbies, theaters and other large areas.

Easy installation for every conceivable requirement is assured by abundant knockouts for easy wiring. Conveniently punched holes are provided for screw mounting. Constructed of heavy gauge welded steel, finished in baked white enamel. General Electric equipped throughout. UL approved. T8-200 Milliamp ballast. These units are also available in 72 inch, 64 inch and 48 inch lengths.

Cat. No.	No. of Lamps	Type	Rating MA	Car- ton	Price Each	
					Advance Ballast	GE or Jeff. Ballast
M1	1-T8	Open	200	2		\$30.65
M2	2-T8	Open	200	2	\$32.85	34.55
M4	4-T8	Open	200	1	61.05	64.45

COMPCO FLUORESCENT FIXTURES INSTANT START CIRCLINE FLUORESCENT FIXTURES

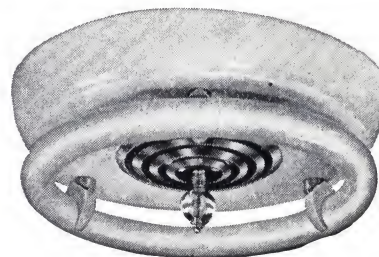
Model 492—Flushmount



Clean, attractive design accented by suspended spherical ornament. Finished in white, washable, baked "Glazenamel," the high lustre finish exclusive with Compo. One light, 12 inch diameter, 32 watt L.P.F. 110-125 volt, 60 cycle, AC only.

List Price, Model 492 (with lamp).....each \$10.85

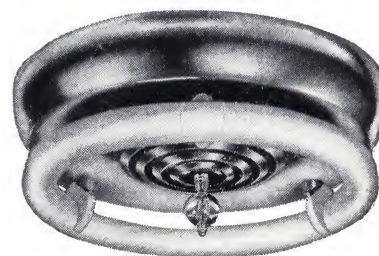
Model 495—Flushmount



Available in two styles: white with chrome trim or ivory with polished brass trim. Body of fixture finished in sparkling "Glazenamel," baked on. Terraced crown on white body is mirror-bright, triple chrome plated. Crown on ivory fixture is highly polished, gleaming brass finish. Both ornamented with crystal pendant. One light, 12 inch diameter, 32 watt, L.P.F. 110-125 volt, 60 cycle, AC only.

List Price, Model 495 (with lamp).....each \$12.95

Model 550—Flushmount



There is sparkling brilliance in the overall, triple chrome finish of this handsome fixture. Body and trim alike glitter and gleam with reflected highlights. Accented with pendant crystal ornament. One light, 12 inch diameter, 32 watt L.P.F.

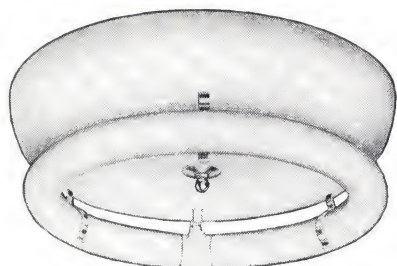
List Price, Model 550 (with lamp).....each \$14.95

COMPCO FLUORESCENT FIXTURES

INSTANT START CIRCLINE FLUORESCENT FIXTURES

All fixtures complete with lamps, ready to install. 110-125 volt 60 cycle only. Fixtures U.L. approved. (Also available without lamps.)

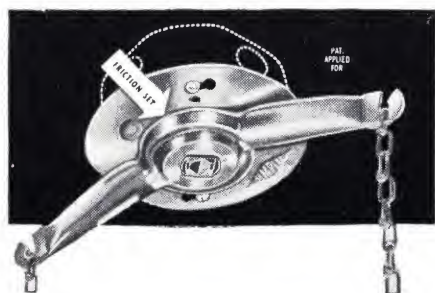
Model No. 665—Economy Model



Full size, low priced fixture, using the spring clip method for securely holding lamp. Available in white, washable, baked "Glazename," or triple chrome plated. Specify 665-C for chrome and add \$1.15 to price of No. 665-W. One light, 12 inches in diameter, 32 watt LPF.

List Price, Model 665-W (with lamp).....each \$9.00

SIMPLET "FRICTION SET" FIXTURE HANGER



A Fixture Hanger that turns to any angle after being screwed to an outlet box. Although base and receptacle remain stationary, hanger arms may be turned to align with any preconceived lighting plan. Exclusive friction ring firmly holds fixture in selected position. Hanger screws on to 3 3/4 inch or 4 inch outlet boxes, no other fastening necessary. Furnished complete with receptacle, two 5-foot chains, S-hooks and cord clips.

Cat. No.	Description	Std. Pkg.	Wt. Pkg. Lbs.	List Price Each
K-100	Fixture Hanger for 3 3/4 or 4-inch outlet box....	50	55	\$1.10

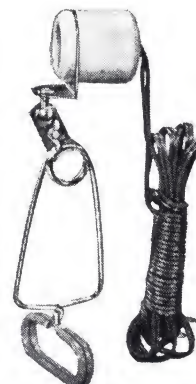
Finish—Cadmium. **Material**—Steel. **Dimensions**—Diameter of cover 4 1/4 inches. Overall length of arms 9 inches. **Receptacle**—Sturdy two-wire, 15 amp. receptacle with double contacts, which grips plug cap firmly.

COMPCO PORCELAIN UTILITY SOCKETS

TWO STYLES FOR EVERY USE AND NEED



No. 299



No. 254

No. 299—Floor Stand Socket

Positive action lock secures height of stand in position at any point. Easily operated — can't slip. Positive leg adjustment. No screws or clamps to set. Folds away for easy storage. Packed 12 to shipping carton; weight 60 lbs. U.L. approved.

List Price, No. 299 Lamp Stand for Heat

Lampseach \$7.50

No. 254 Clamp-On Socket

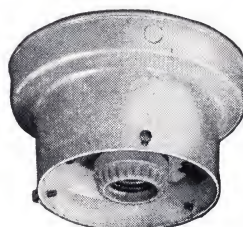
Vise-action spring clamp grips securely — holds lamp steadily in place where desired. Rubber covered at contact point to prevent marring. 6-ft. approved cord. Packed 25 to carton. U.L. approved.

List Price, No. 254 Porcelain Socket and

Spring Clamp Assembly.....each \$1.95

COMPCO ALL PURPOSE HOLDER

4-INCH HOLDER—ONE PIECE PRESSED STEEL CONSTRUCTION



Quickly and easily installed. Will fit most standard types outlet boxes. Complete with cross bar and extension screws, eyelet hole for pull chain sockets and knockout at top rim. Baked-on white enamel finish or highly polished plate finish.

Baked-On White Enamel Finish

Model No.	Description	Wt. Lbs. Per Case	List Price Each
67	Holder without socket	40	.....
68	Holder with keyless socket.....	45	.....
69	Holder with pull chain socket..	45	.....

Highly Polished Chrome Plated Finish

91	Holder without socket	40	.....
92	Holder with keyless socket.....	45	.....
93	Holder with pull chain socket..	45	.....

Packed in individual boxes, 50 boxes to a shipping case. Prices on request.

JEFFERSON FLUORESCENT LAMP BALLASTS



No. 234-701



No. 234-501



No. 234-601

All of the materials used in Jefferson Electric Ballasts are of selected high quality. Moisture is removed in vacuum equipment of latest design and coils are double vacuum impregnated under pressure, making them impervious to moisture under all operating conditions. Only the best grades of electrical steels are used for laminæ, which are re-annealed after punching.

The rugged steel cases are black enamel finished and equipped with convenient mounting brackets.

Installation—To promote efficient and long service the usual installation precautions must be observed. Like other electrical devices, ballasts have definite operating limitations. Jefferson Ballasts are designed to deliver rated watts to the lamp at the nominal voltage indicated on each unit. Failure to install on circuits within the limits indicated in the following table will cause lamp to deliver other than its rated output and may possibly damage the ballast or lamp.

Single Lamp Ballasts — 60 Cycles Normal Power Factor

Cat. No.	Circuit Voltage	Lamp Watts	Appr. Watts Loss	Appr. Power Factor %	Appr. Shpg. Wt. One Std. Ctn.	List Price
234-521	110-125	14	3.6	45	20 20	\$0.53
234-501	110-125	15	3.5-4.5	55	20 20	.53
234-511	110-125	20	4.5	65	20 20	.53
234-541	110-125	30	7.0	60	10 25	2.00
234-543	220-250	30	6.75	50	10 22	1.75
234-546	199-216	30	6.25	55	10 22	1.75
234-581	110-125	40	8.75	65	10 22	2.00
234-583	220-250	40	10.0	55	10 22	1.75
234-586	199-216	40	9.0	60	10 22	1.75

Single Lamp Ballast — 60 Cycles High Power Factor

234-621	110-125	14	3.6	85	10 15	3.20
234-601	110-125	15	3.5-4.5	90-100	10 15	3.20
234-611	110-125	20	4.5	90-100	10 15	3.20
234-641	110-125	30	7.0	90-100	10 35	4.30
234-643	220-250	30	6.75	90-100	10 25	4.00
234-646	199-216	30	6.25	90-100	10 25	4.00
234-681	110-125	40	8.75	90-100	10 35	4.30
234-683	220-250	40	10.0	90-100	10 25	4.00
234-686	199-216	40	9.0	90-100	10 25	4.00
†234-691	110-125	100	25.0	90-100	4 45	9.00
†234-693	220-250	100	25.0	90-100	4 45	9.50
†234-696	199-216	100	25.0	90-100	4 45	9.50

Two Lamp Instant Start Ballast — 60 Cycles High Power Factor

234-181	110-125	2-40	25.0	95	4 44	9.50
*234-191	110-125	2-40	25.0	95	4 44	10.00

†Will also operate the 85 Watt Lamp.

*For use in ambient temperatures as low as 40° F.

Nominal Voltage	Low Voltage	High Voltage
118	110	125
208	199	216
236	220	250

Frequency—Frequency must agree with the frequency indicated on the ballast housing.

Ventilation—It is important that the housing in which the ballast is mounted be suitably ventilated to insure proper dissipation of heat. These units, like most electrical devices, generate a certain amount of heat during normal operation should not be more than 50 degrees C.

Reduction of Stroboscopic Effect—Each two-lamp high power factor ballast is equipped with a condenser which not only corrects the power factor but operates one lamp out of phase with the other, thereby greatly reducing the stroboscopic effect characteristic of fluorescent lamps.

Two Lamp Ballasts — 60 Cycles Normal Power Factor

Cat. No.	Circuit Voltage	Lamp Watts	Appr. Watts Loss	Appr. Power Factor %	Appr. Shpg. Wt. One Std. Ctn.	List Price
234-985	110-125	2- 15	10.0	55	10 16	\$1.05
234-986	110-125	2- 20	10.0	55	10 16	1.05

Two Lamp Ballasts — 60 Cycles High Power Factor

234-701	110-125	2- 15	8-9.	95-100	10 35	4.25
234-711	110-125	2- 20	10.0	95-100	10 35	4.25
234-841	110-125	2- 30	14.5	95-100	10 70	5.25
234-843	220-250	2- 30	12.5	95-100	10 70	5.80
234-846	199-216	2- 30	12.0	95-100	10 70	5.80
234-881	110-125	2- 40	17.5	95-100	10 70	4.65
234-883	220-250	2- 40	14.5	95-100	10 70	5.25
234-886	199-216	2- 40	13.5	95-100	10 70	5.80
†234-791	110-125	2-100	35.0	95-100	4 62	12.00
†234-793	220-250	2-100	35.0	95-100	4 62	14.00
†234-796	199-216	2-100	35.0	95-100	4 62	14.00

Two Lamp Ballasts — 60 Cycles (Narrow Type 2½") — High Power Factor

234-441	110-125	2- 30	14.5	95-100	10 70	6.50
234-443	220-250	2- 30	12.5	95-100	10 65	7.00
234-446	199-216	2- 30	12.0	95-100	10 65	7.00
234-481	110-125	2- 40	17.5	95-100	10 70	6.00
234-483	220-250	2- 40	14.5	95-100	10 65	6.50
234-486	199-216	2- 40	13.5	95-100	10 65	7.00

Three Lamp 40 Watt Ballasts — 60 Cycles High Power Factor

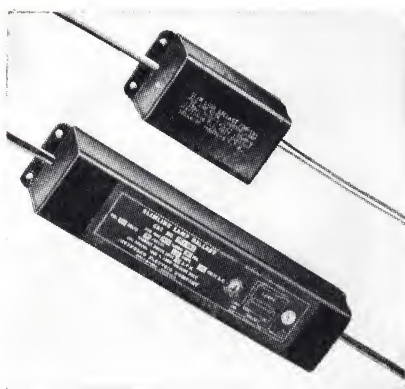
234-983	110-125	3- 40	23.0	90-100	4 44	8.50
234-980	220-250	3- 40	23.0	90-100	4 44	9.50

†Will also operate the 85 Watt Lamp.

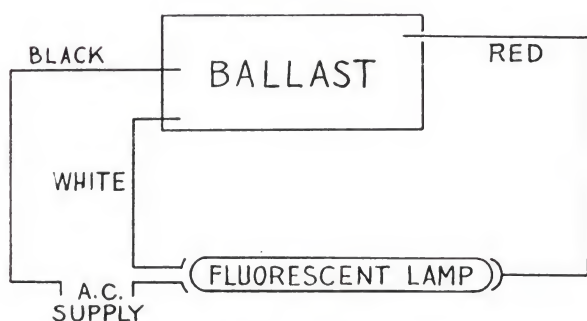
JEFFERSON SLIMLINE LAMP BALLASTS

FOR LONG SLIM FLUORESCENT LAMPS

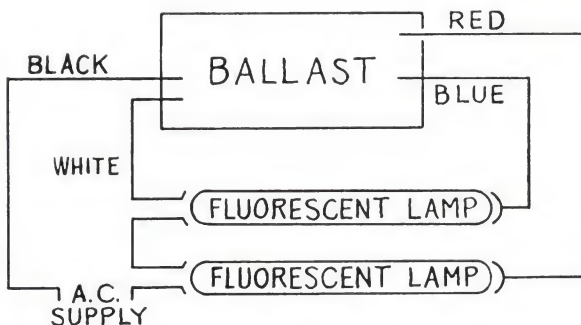
Approved by Underwriters' Laboratories, Inc.



Slimline lamps with single pin contact at each end operate on the hot cathode principle. They are instant starting and do not require a separate starting device. The types listed below are designed for operation on a nominal line voltage of 118 or a range of 110-125 volts. The function of the ballast is to transform the line voltage to the high starting voltage required by the lamp and when the arc is established, limit the current and voltage to that required by the lamp in normal operation. For efficiency and long life lamp service it is imperative that the ballast characteristics closely match those of the lamps and users guarantee is the E.T.L. label appearing on each ballast. This certifies that the Electrical Testing Laboratories, an independent testing organization, periodically test ballasts taken from regular production to ascertain if they meet the electrical requirements set up by the leading lamp manufacturers.



Wiring Diagram Fig. 1
For Single-Lamp Ballasts



Wiring Diagram Fig. 2
For Two-Lamp Ballasts

110-125 Volts 60 Cycles

TWO LAMP BALLASTS (Equipped with Leads)

Cat. No.	Lamp Size	Lamp Watts	Lamp Cur- rent M.A.	Ap- prox. Loss	Approx. Wt.Lbs.	List Price
254-171	42T6	(2)-18	120	15	7½	\$9.25
254-181	{ 64T6 72T8	(2)-27.5 (2)-26	120 120	20	8½	9.25
254-301	96T8	(2)-34	120	25	9½	10.00
254-271	42T6	(2)-25	200	18	8¾	9.50
254-281	{ 64T6 72T8	(2)-39 (2)-38	200 200	24	11	10.00
254-401	96T8	(2)-51	200	32	14	10.00
254-321	42T6	(2)-33	300	23	10	12.25
254-331	{ 64T6 72T8	(2)-51 (2)-51	300 300	35	13	13.00
254-311	96T8	(2)-69	300	40	17	13.25
254-481	72T12	(2)-58	425	37	16	13.00
254-491	96T12	(2)-75	425	45	19¼	14.50

SINGLE LAMP BALLASTS (Equipped with Leads)

Cat. No.	Lamp Size	Lamp Watts	Lamp Cur- rent M.A.	Ap- prox. Loss	Approx. Wt.Lbs.	List Price
254-131	42T6	18	120	9	6	\$7.75
254-141	{ 64T6 72T8	27.5 26	120 120	11	6	7.75
254-161	96T8	34	120	14	6½	8.40

110-125 Volts 60 Cycles

SINGLE LAMP BALLASTS (Equipped with Leads)

Cat. No.	Lamp Size	Lamp Watts	Lamp Cur- rent M.A.	Ap- prox. Loss	Approx. Wt.Lbs.	List Price
254-231	42T6	25	200	13	7¼	\$8.00
254-241	{ 64T6 72T8	39 38	200 200	15	7½	8.70
254-261	96T8	51	200	18	8½	9.25
254-341	42T6	33	300	15	7½	10.00
254-351	{ 64T6 72T8	51 51	300 300	19	9	11.00
254-361	96T8	69	300	21	9½	11.00
254-461	72T12	58	425	21	10	11.00
254-471	96T12	75	425	25	15	11.00

SINGLE AND TWO LAMP BALLASTS (Equipped with Terminal Panel)

Cat. No.	Lamp Size	Lamp Watts	Lamp Cur- rent M.A.	Ap- prox. Loss	Approx. Wt.Lbs.	List Price
(400)						
254-281	{ 64T6 72T8	(2)-39 (2)-38	200 200	24	11	\$10.00
254-311	{ 64T6 72T8	(2)-51 (2)-51	300 300	35	13	13.00
254-481	72T12	(2)-58	425	37	16	13.00
254-401	96T8	(2)-51	200	32	14	10.00
254-311	96T8	(2)-69	300	40	17	13.25
254-471	96T12	75	425	15	15	11.00
254-491	96T12	(2)-75	425	45	15¼	14.50

JEFFERSON LUMINOUS TUBE SIGN TRANSFORMERS

SERIES 721-724 HIGH-INTENSITY TRANSFORMERS

Listed Standard by Underwriters' Laboratories



Series 721—U. S. Patents Nos.
1,777,256 and 1,786,422.

Designed for use with all types of portable or fixed indoor or outdoor neon signs. Cases are drawn in one piece from heavy rust-resisting steel, and finished in baked-on black wrinkled enamel.

115 Volts — 60 Cycle

Series 721 — Normal Power Factor

Cat. No.	Capacity V.A.	Secondary Volts	M.A.	Approx. Wt.Lbs.	List Price
721-411	825	15,000	60	60	\$25.00
721-111	450	15,000	30	31	18.00
721-421	720	12,000	60	56	23.00
721-121	360	12,000	30	30	17.00
721-321	200	12,000	18	20	15.50
721-441	500	9,000	60	38	20.00
721-141	250	9,000	30	19½	15.00
721-341	190	9,000	18	14	12.50
721-451	450	7,500	60	31	18.50
721-151	225	7,500	30	19	14.00
721-351	150	7,500	18	13	11.00
721-431	360	6,000	60	30	16.50
721-131	180	6,000	30	14	12.50
721-331	140	6,000	18	12	9.50
721-461	300	5,000	60	28½	15.00
*721-161	150	5,000	30	13	11.00
*721-361	100	5,000	18	9¾	8.50
721-471	250	4,000	60	19¾	14.50
*721-171	140	4,000	30	9½	9.05
*721-371	90	4,000	18	8½	8.45
721-491	180	3,000	60	17	11.00
*721-191	100	3,000	30	9	8.00
*721-391	75	3,000	18	8	7.50

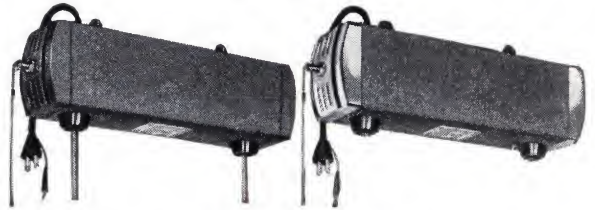
Series 724 — High Power Factor

724-411	450	15,000	60	60	\$37.00
724-111	250	15,000	30	31½	24.00
724-421	400	12,000	60	59	35.00
724-121	200	12,000	30	31	22.50
724-321	150	12,000	18	19¾	21.00
724-441	275	9,000	60	37	29.50
724-141	150	9,000	30	22½	20.50
724-341	110	9,000	18	22	18.00
724-451	250	7,500	60	31½	26.50
724-151	125	7,500	30	27	19.50
724-351	90	7,500	18	18	16.50
724-431	200	6,000	60	31	23.50
724-131	100	6,000	30	22	18.00
724-331	75	6,000	18	18	15.00
724-461	150	5,000	60	32	21.50
724-161	90	5,000	30	16½	16.50
*724-361	60	5,000	18	13	14.00
724-471	120	4,000	60	19¾	20.50
*724-171	75	4,000	30	11	14.20
724-491	100	3,000	60	19¾	17.50
*724-191	60	3,000	30	11	13.00

All transformers listed above are mid-point grounded balanced design except those indicated by an asterisk (*).

JEFFERSON LUMINOUS TUBE TRANSFORMERS

INDOOR CABINET TYPE



Hanging or Standing Types
Series 726 — Series 728

727 Series (not illustrated)—Standard equipment: Secondary cables 2 feet long; 3-conductor primary cord 6 feet long; 2-prong plug; pull chain primary switch.

726 Series — Standard equipment: Secondary cables 2 feet long; 3-conductor primary cord, 6 feet long; 2-prong plug; pull chain primary switch.

728 Series — Standard equipment: Electrode housings instead of secondary cables. Prices same as 726 and 736 Series. When ordering change the first three digit numbers of the catalog number from 726 and 736 to 728 and 738 respectively.

115 Volts — 60 Cycle

Series 727 — Normal Power Factor Type

Cat. No.	Capacity V.A.	Secondary Volts	M.A.	Approx. Wt.Lbs.	List Price
727-341	190	9,000	18	11	\$12.00
727-351	150	7,500	18	10	10.50
727-331	140	6,000	18	9	9.90
727-361	100	5,000	18	9	9.50

Series 726 — Normal Power Factor Type

726-111	450	15,000	30	34½	\$22.25
726-121	360	12,000	30	33	21.00
726-141	250	9,000	30	20	17.30
726-341	190	9,000	18	18	14.00
726-151	225	7,500	30	19½	15.50
726-351	150	7,500	18	17	12.30
726-131	180	6,000	30	18½	13.00
726-331	140	6,000	18	16	11.40
*726-161	150	5,000	30	16½	11.30
*726-361	100	5,000	18	16	10.90

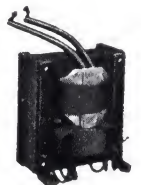
Series 736 — High Power Factor Type

736-111	250	15,000	30	35	\$29.20
736-121	200	12,000	30	33½	27.00
736-141	150	9,000	30	20½	22.80
736-341	110	9,000	18	18½	16.90
736-151	125	7,500	30	20	20.70
736-351	90	7,500	18	17½	15.20
736-131	100	6,000	30	19	18.00
736-331	75	6,000	18	16½	14.40
*736-161	90	5,000	30	17	16.10
*736-361	60	5,000	18	16½	13.90

All transformers listed above are mid-point grounded balanced design except those indicated by an asterisk (*).

CORE AND COIL WITHOUT CASE

Jefferson Core and Coil types are particularly adaptable for small portable signs, where space is at a premium and where small sections of tube are to be operated. Each unit is assembled in the same careful and thorough manner as are Jefferson encased types.



Cat. No.	Capacity V.A.	Secondary Volts	M.A.	Approx. Wt.Lbs.	List Price
720-361	100	5,000	18	6	\$6.00
720-371	90	4,000	18	5	5.40
720-391	75	3,000	18	4	4.50
720-381	50	2,000	18	3	3.70

FLEXO Adjustable Fluorescent Lamps

Exclusive with "Flexo"—Six adjustments provide complete flexibility. Each has an automatic stop after making one complete revolution. Supporting arms have horizontal and vertical movement through a range of nearly a 6-foot circle. Double arms provide a variation of reach.

Finishes: Bronze and Gray



GENERAL MODEL

For factory benches, office desks, industrial and business machines, laboratories, home workshops, watch-makers' benches. Two bolts clamp base to surface up to 3 inches thick. Bolts removable for screw surface mounting.

Cat. No.	Lamps	Power Factor	Current	Shpg. Wt. Lbs.	Price Each
4300	1-lite	50%	60 Cycle	7 1/2	\$13.50
4301	1-lite	100%	D.C.	7 1/2	15.00
4303	2-lite	50%	60 Cycle	9	16.75
4304	2-lite	100%	D.C.	9	19.25
4305	2-lite	90%	60 Cycle	9 1/2	19.25

DRAFTSMAN MODEL

Same as above except with bracket for screwing to underside of drawing board or table, leaving entire surface free for use with T-square or slide rule. Adaptable for wall mounting and machine application.

Cat. No.	Lamps	Power Factor	Current	Shpg. Wt. Lbs.	Price Each
4309	2-lite	50%	60 Cycle	10	\$16.75
4310	2-lite	100%	D.C.	10	19.25
4311	2-lite	90%	60 Cycle	10 1/2	19.25

Starting Switch—Operates fluorescent tubes, turning light on or off by pressing switch momentarily. Practically instantaneous lighting.

Voltage and Current—105-125 volts, 60 cycle, A.C. 105-125 volts D.C. All D.C. models furnished with resistor cord. 220 volt on request.



DESK MODEL

Portable—attractive base with pen and pencil grooves for executive use, filing cabinets or for desks or tables which cannot be clamped or screwed. Double-arm extends 32 inches.

Cat. No.	Lamps	Power Factor	Current	Shpg. Wt. Lbs.	Price Each
4324	2-lite	50%	60 Cycle	23	\$22.50
4325	2-lite	100%	D.C.	23	25.00
4326	2-lite	90%	60 Cycle	23 1/2	25.00

FLOOR MODEL

Same as above except with pedestal base 13 1/2 inches diameter. For general office and home use, physicians and dentists, assembly work in aviation and engine plants, for business machines. The 36-inch shaft permits lamp to be adjusted directly overhead on any task.

Cat. No.	Lamps	Power Factor	Current	Shpg. Wt. Lbs.	Price Each
4315	2-lite	50%	60 Cycle	30	\$24.00
4316	2-lite	100%	D.C.	30	26.50
4317	2-lite	90%	60 Cycle	30 1/2	26.50

Incandescent models available.

FLEXARM and LITEMASTER Fluorescent Desk Lamps



the ever dependable gooseneck feature insures easy placement of light

FLEXARM

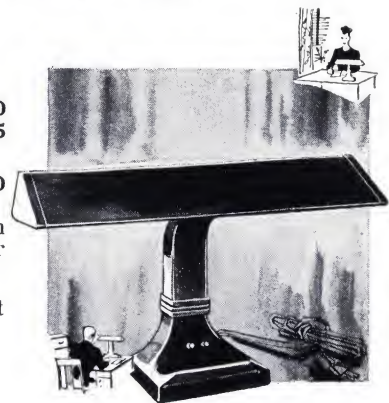
- 1-Lite, No. 4448.....\$ 7.50
- 2-Lite, No. 4444..... 12.95

LITEMASTER

- 1-Lite, No. 47.....\$ 7.00

Both models finished in oven-fired statuary bronze or gray.

Uses standard T8 15-watt tubes.



Sturdy metal, non-magnetic base, 5 1/4 by 6 1/2 inches. Rubber bumpers. Shade of heavy gauge steel, 2 1/4 by 3 1/4 by 18 inches. Reflectors are washable porcelain white enamel. U. L. approved 6-foot G. E. Flamenol cord and electrical materials. On and off automatic switch.

105-125 volts, 60 cycles, A.C. Packed one to a carton. Weight, 1-lite, 7 pounds; 2-lite, 9 1/4 pounds.

Prices do not include lamps.

Durable metal, non-magnetic base 5 by 5 1/4 inches. Shade of heavy gauge steel, 2 1/4 by 3 1/4 by 18 inches. Lamp height 11 inches. On and off automatic switch. Rubber bumpers. U. L. approved 6-foot Flamenol cord and electrical materials.

Reflectors are washable porcelain white enamel. 105-125 volts, 60 cycles, A.C.; D.C. available. Packed one to a carton. Weight, 7 1/4 pounds.

RESIDENTIAL LIGHTING FIXTURES



In a catalog of this kind, it is impossible to illustrate a complete listing of residential fixtures that are carried in our stock. We invite you to visit our showrooms, where a very large display is at all times maintained under ideal conditions.

LIGHTOLIER

No. 2097 WELCOME



No.	Description	Price
2097	1 light—40W. lamp. Mellow light through its ivory-tinted glass. Length 4½ in., width 7¼ in. Finish: Colonial brass.....	\$4.35

No. 7374 CHROMELIER



No.	Description	Price
7374	1 light—60W. lamp. Smartly streamlined. Length 4¾ in., width 7¼ in. Extension 7¾ in. Backplate 4¾ in. diameter. Pull switch and outlet. Finish: Chrome plate.....	\$5.00

No. 7379 CHROMELIER



No.	Description	Price
7379	1 light—40W. lamp. Compact size for many locations. Length 4¼ inches; width 6½ inches. Finish: Chrome plate	\$4.35

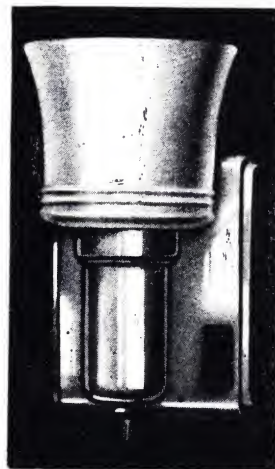
LIGHTOLIER

No. 7378 CHROMELIER



No.	Description	Price
7378	2 light—25W. lamps. Trim and neat, smart and sturdy. Length 4 inches; width 8¾ inches. Finish: Chrome plate	\$5.45

No. 7372 CHROMELIER

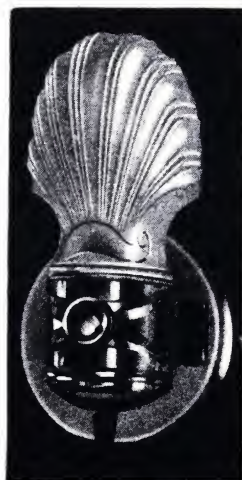


No.	Description	Price
7372	1 light—60W. lamp. Length 6½ inches; width 3½ inches. Extension 4¼ inches. Backplate 4¾x3½ inches. Switch and outlet. Glassware: Opal. Finish: Chrome plate	\$5.00

No. 2390-2392 CHROMELIERS

No. 2392. Finely modeled frosted glass with cut crystal base. Length 7½ inches; extension 3½ inches. Chrome plate backplate 4¾ inches diameter. Control switch and convenience outlet.

No. 2390. Same as No. 2392 with out convenience outlet.



No.	Description	Price
2392	1 light, 60W. lamp	\$6.20
2390	1 light, 60W. lamp	5.65

MOE LIGHT PRODUCTS M-1000 AND M-2000 DESK LAMPS

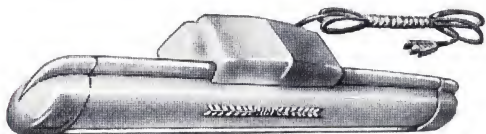


A Desk Lamp in a pleasing, modern design. Attractively finished in Desert Brown, Mahogany, Pearl Gray, or Cobalt Blue. Padded base plate. Ornaments can be removed easily to permit installation of pen sets. Has built-in radio-interference suppressor. For A.C. only.

Price, M-1000 One Light Desk Lamp...each \$10.45

Price, M-2000 Two Light Desk Lamp...each 14.65
(Price includes fluorescent lamp)

M-418 BED AND WALL LAMP



The most versatile bed lamp on the market today. Easy on the eyes — gives plenty of light. Adjustable for direct or indirect illumination. Can be clipped on furniture or mounted on the wall. Ivory, Gold or Mahogany, 19½ inches long, 3½ inches deep. Has built-in radio interference suppressor. For A.C. only.

Price, No. M-418 Bed Lamp...each \$13.60
(Price includes fluorescent lamp)

M-218 PORTABLE LIGHT



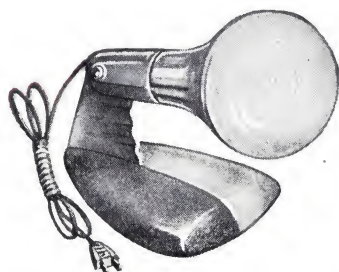
A clever portable light that can be used anywhere. Mount it horizontally or vertically — especially suitable for lighting counters under kitchen cupboards and bathroom mirrors. White or chrome. 25 inches long. A.C. only.

Price, No. M218 Fluorescent Portable

Whiteeach \$6.25
Chromeeach 9.15

(Price includes fluorescent lamp)

M-77 LAMP HOLDER



For all reflector-type heat lamps, sun lamps, spot lamps and flood lamps. New, patented base permits it to be used anywhere in dozens of ways. Tested and approved by Underwriters' Laboratories. Available in either Rust Brown, or Pearl Gray.

Price, No. M-77 Lamp Holder...each \$3.10

MOE LIGHT PRODUCTS TWO-LIGHT FLUORESCENT

M-1124 (Adapter Type)
M-1324 (Permanent Installation)



No. M-1124

Two-light fluorescent. Efficient and economical. Adapter slips into present shade holder or may be removed entirely for permanent mounting. Finished in gleaming Bonderized-Baked White Enamel with White or Chromium End Caps. 25½ inches long, 6½ inches wide. For A.C. only.

Price, M-1124 (Adapter Type)

M-1324 (Permanent Installation)

White End Caps.....each \$7.95

Chrome End Caps.....each 8.95

(Less Fluorescent Lamps)

OUTDOOR CEILING FIXTURE—TWO LIGHT



Withstands severest weather. Two light. Diameter 10 inches; depth 3¾ inches. Finish: Solid Copper, opal glass.

Price, No. M-810.....each \$6.50

CEILING FIXTURE

For Kitchens, Halls, Bathrooms



Gleaming chrome with white opal glass. Available in four popular sizes.

Cat. No.	Description	Price
M-406	One light. Dia. 7". Depth 5".....	\$2.90
M-408	Two light. Dia. 9". Depth 4½".....	3.90
M-410	Two light. Dia. 11". Depth 4¾".....	5.35
M-412	Three light. Dia. 13". Depth 5".....	6.95

Pull switch easily added.

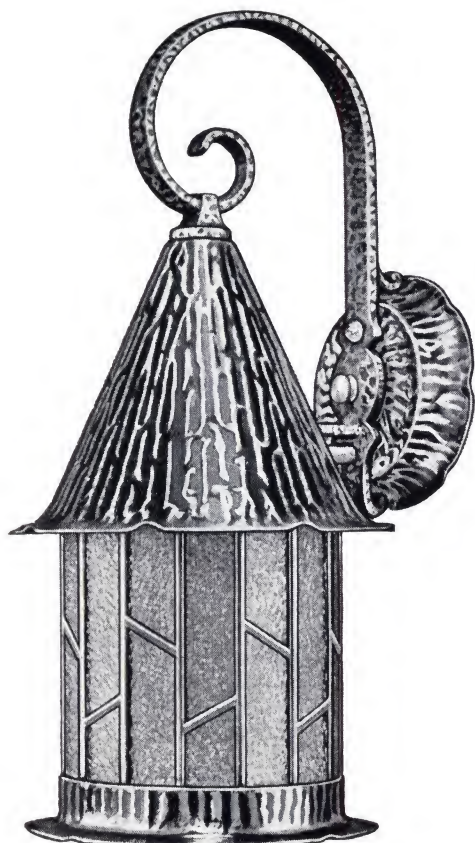
BATHROOM FIXTURE

Canopy diameter 4½ inches; length 6 inches; extends 4½ inches. Canopy switch. Finish: Chromium.

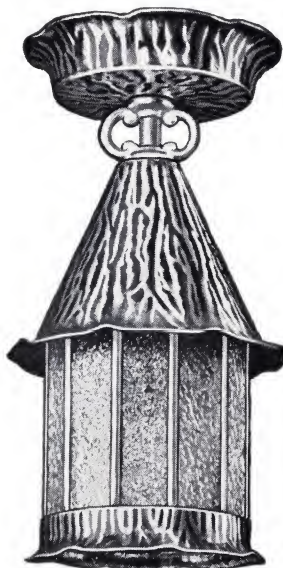
Price, No. M-121 Bathroom Fixture each \$3.25



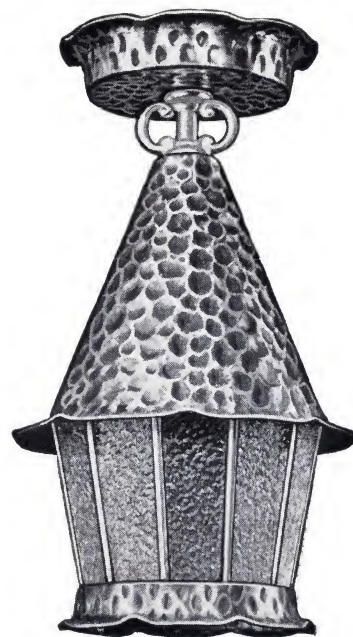
HINKLEY LEADED LANTERNS



No. 338-B



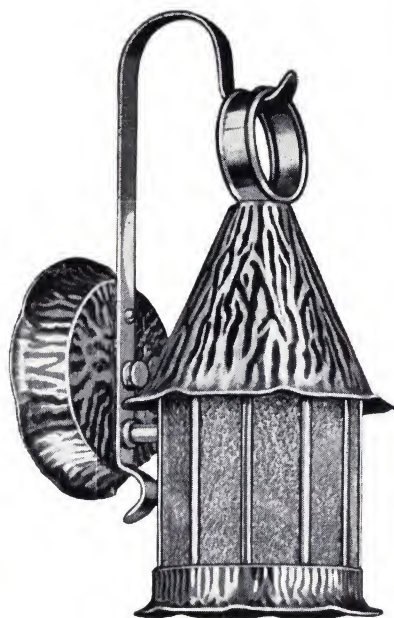
No. 330-C



No. 335-C

338-B Cage 7" x 11", overall height 15½ inches, extension 8 inches. Packed individually, one to master carton. Finishes: Flemish Copper; or, Pewter with Crystal Moss Glass.
Copper.....\$21.00; Pewter.....\$19.50

330-C Cage 3 x 7½ inches, overall height 9½ inches. Packed individually, 6 to master carton. Finishes: Flemish Copper; or Pewter with crystal Moss Glass.
Copper.....\$10.50; Pewter.....\$ 9.75



No. 330-B

335-C Cage 6 x 8½ inches, overall height 10½ inches. Packed individually, 6 to carton. Finishes: Flemish Copper; or, Pewter with Crystal Moss Glass.

Copper.....\$14.25
Pewter.....\$13.50

330-B Cage 5 x 7½ inches, overall height 11½ inches, extension 6 inches. Packed individually, 6 to carton. Finishes: Flemish Copper; or, Pewter with Crystal Moss Glass.

Copper.....\$10.50
Pewter.....\$ 9.75

335-B Cage 6 x 8½ inches, overall height 12½ inches, extension 7 inches. Packed individually, 6 to carton. Finishes: Flemish Copper; or Pewter with Crystal Moss Glass.

Copper.....\$14.25
Pewter.....\$13.50



No. 335-B

HINKLEY OUTDOOR—INDOOR LANTERNS

POST LANTERNS—OUTDOOR LANTERNS
INDOOR LANTERNS—HALL AND DINETTE
FIXTURES



No. 420-B



No. 400-P



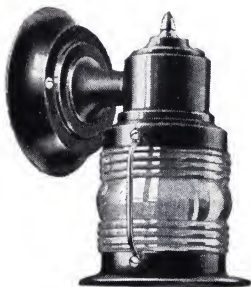
No. 420-C

420-B Cage $6\frac{1}{2}$ x 8 inches, overall height 11 inches, extension 9 inches. Packed individually, 6 to master carton. Made of solid copper. Finish: Satin Black with Colonial Brass Trim.....\$12.75

420-H (Not illustrated) Same cage as 420-C, with Chain Hanger, overall height 38 inches. Packed individually, 6 to master carton. Made of solid copper. Finish: Satin Black with Colonial Brass Trim\$12.75

400-P Cage 9 x $10\frac{1}{2}$ inches, overall height $16\frac{1}{2}$ inches. 3-inch post fitter. Chimney accommodates a 100 watt bulb. Packed individually. Made of solid copper. Finish: Satin Black with Colonial Brass Trim\$17.25

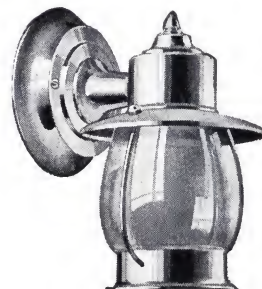
420-C Cage $6\frac{1}{2}$ x 8 inches, overall height 12 $\frac{1}{2}$ inches. Packed individually, 6 to master carton. Made of solid copper. Finish: Satin Black with Colonial Brass Trim.....\$12.75



321-B Cage $4\frac{1}{2}$ x $7\frac{1}{2}$ inches, extension $5\frac{1}{2}$ inches. Packed individually, 12 to master carton.

Finishes: Flemish Copper; or Satin Black with Brass Trim.

Price, No. 321-B
Black\$3.30
Copper 3.90



325-B Cage 5 x $7\frac{1}{2}$ inches, extension 6 inches. Packed individually, 12 to master carton.

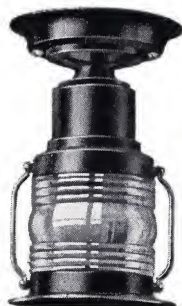
Finishes: Colonial Brass; Flemish Copper; or, Satin Black with Brass Trim.

Price, No. 325-B
Black\$3.45
Brass 4.80
Copper 4.05

321-C Cage $4\frac{1}{2}$ x 7 inches, overall height 8 inches. Packed individually, 12 to master carton.

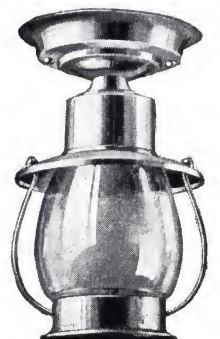
Finishes: Flemish Copper; or, Satin Black with Brass Trim.

Price, No. 321-C
Black\$3.30
Copper 3.90

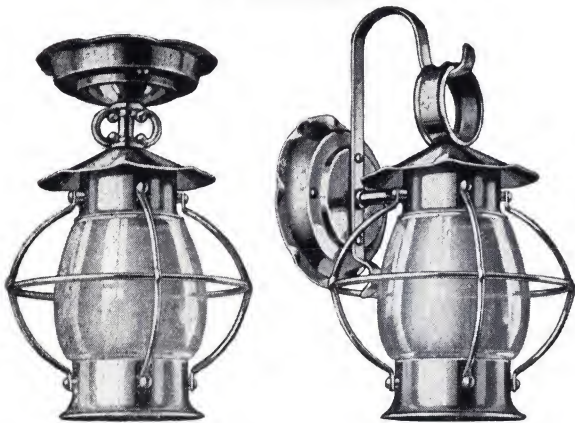


325-C Cage 5 x 7 inches, overall height 8 inches. Packed individually, 12 to master carton. Finishes: Colonial Brass; Flemish Copper; or, Satin Black with Brass Trim.

Price, No. 325-C
Black\$3.45
Brass 4.80
Copper 4.05



**HINKLEY OUTDOOR—INDOOR
LANTERNS**



No. 322-C

No. 322-B

322-C Cage 6 x 7 inches, overall height 9½ inches. Packed individually, 6 to master carton. Finishes: Colonial Brass; or Satin Black with Brass Trim.

Price, No. 322-C

Satin Black.....\$9.00; Colonial Brass.....\$10.50

322-B Cage 6 x 7 inches, overall height 10½ inches, extension 6 inches. Packed individually 6 to master carton. Finishes: Colonial Brass; or, Satin Black with Brass Trim.

Price, No. 322-B

Satin Black.....\$9.00; Colonial Brass.....\$10.50

**HINKLEY HALL AND DINETTE
FIXTURES**



302 Width 9 inches, height 7½ inches. Packed individually, 6 to master carton.

Finishes: Colonial brass; red and brass; yellow and brass.

Price, No. 302 Fixture, Colonial Brass..... \$9.00

No. 302 Fixture, Red and Brass..... 8.25

310 Width 4½ inches, height 7 inches. Packed individually, 12 to master carton.

Finish: Colonial Brass with Frosted Cut-Glass.

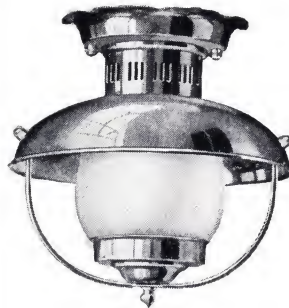
Price, No. 310 Fixture

..... each \$6.30



No. 310

**HINKLEY HALL AND DINETTE
FIXTURES**



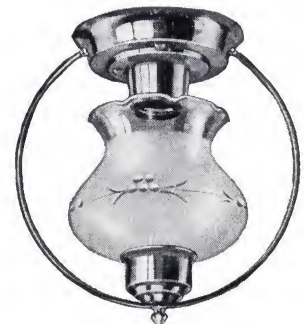
No. 305

305 Width 7 inches, height 7½ inches. Packed individually, 6 to master carton. Finishes: All Colonial Brass; or, Red and Brass. Frosted Glass.

Price, No. 305

All Brass\$8.25

Red and Brass 7.50



No. 303

303 Width 7½ inches, height 8 inches. Packed individually, 12 to master carton. Finishes: Colonial Brass with Frosted Cut-Glass.

Price, No. 303

Brass\$5.85



No. 308

308 Width 6 inches, height 6½ inches. Packed individually, 12 to master carton.

Finish: Colonial Brass with Sparkling Crystal Glass.

Price, No. 308

Brass\$4.05

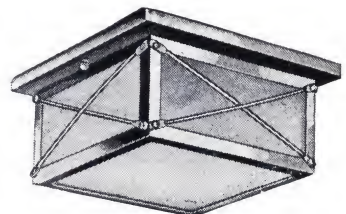
402 Cage 7x7x3½ inches. Packed individually, 6 to master carton. Made of solid copper or brass.

Price, No. 402

Black\$7.95

Copper or

Brass\$9.75



No. 402

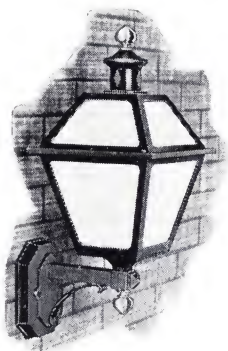
406 Cage 9½x9½x3½ inches. Packed individually, 6 to master carton. Made of solid copper or brass.

Price, No. 406, Satin Black.....\$10.50

Polished Copper, or Colonial Brass.... 12.75

HERWIG LIGHTING FIXTURES

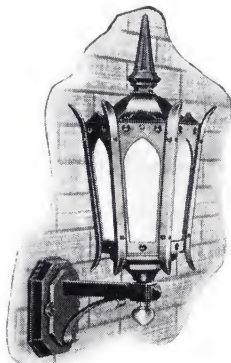
FINE RESIDENTIAL LANTERNS



No. 409:

Height overall 21". Lantern size 9"x16". Backplate 4 1/4"x6 3/4". Wall to center 7 1/2".

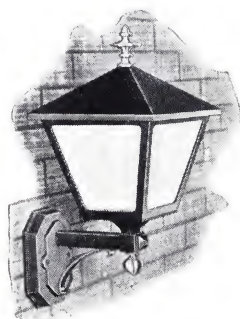
Aluminum Black\$26.90
Cast Bronze 42.00



No. 129:

Height overall 20". Lantern size 9"x17". Backplate 4 1/4"x6". Wall to center 7 1/2".

Iron Black \$25.85
Cast Bronze 53.75



No. 413:

Height overall 18 1/2". Lantern size 9"x15". Backplate 4 1/4"x6 3/4". Wall to center 7 1/2".

Aluminum Black\$25.20
Cast Bronze 42.00

A
FIXTURE
FOR
EVERY
TYPE
OF
BUILDING

SPECIFY

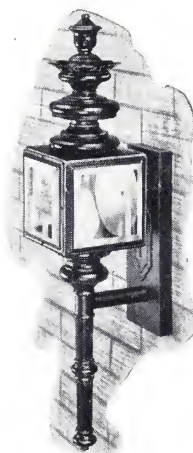
TYPE OF METAL, FINISH AND KIND OF GLASS.

FLAT GLASS AVAILABLE IN OPAL, CLEAR, AMBER OR MOSS.

HERWIG LIGHTING FIXTURES

FINE RESIDENTIAL LANTERNS

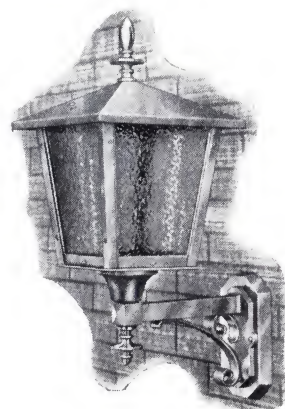
250
DIFFERENT
DESIGNS



No. 401:

Height overall 28 1/4". Lantern size 6 1/2"x6". Backplate 4 1/4"x12". Wall to center 5 1/2". Heavy 3/8" plate glass, hand beveled.

Aluminum
Black\$100.00
Aluminum Satin 134.00



No. 404:

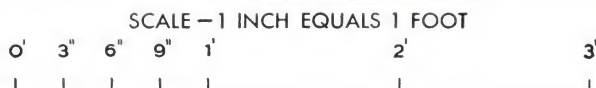
Height overall 27". Lantern size 11"x19 1/2". Backplate 4 1/2"x9". Wall to center 10 1/4".

Aluminum Black\$17.00
Cast Bronze 67.20

POST STANDARDS
CEILING FIXTURES
WALL POCKETS
PIER FIXTURES
PENDANTS
BRACKETS

LIFETIME LIFELINE...

This is the thickness of the metal in our fixtures →



PRESCOLITE

recessed lighting fixtures

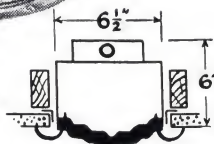
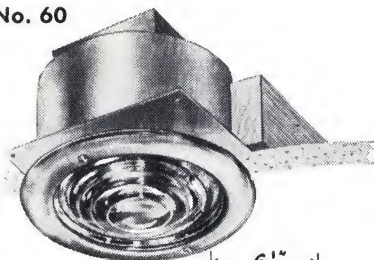
EXCLUSIVE FEATURES

Heat resisting glassware.
Plaster flanges adjust from 1/4" to 1".
A type and style for any application.

CHROME FINISH IS STANDARD —
SPECIFY BRASS OR ALUMINUM IF
DESIRED.

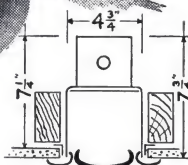
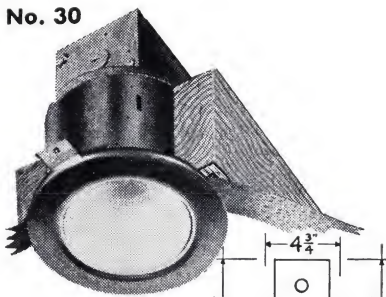
EACH FIXTURE PACKAGED INDIVIDUALLY

No. 60



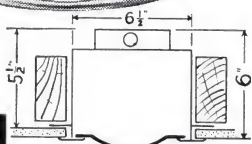
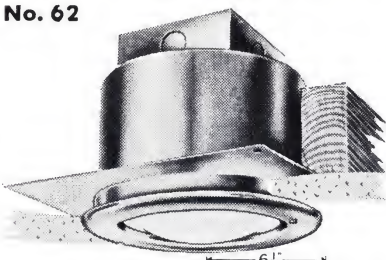
60 WATT

No. 30



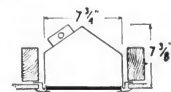
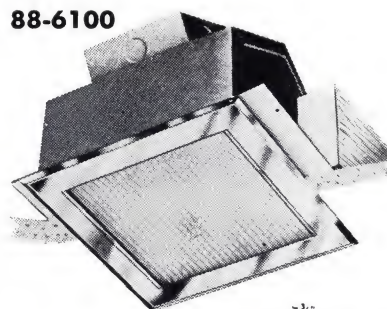
75 WATT

No. 62



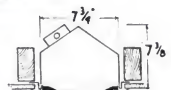
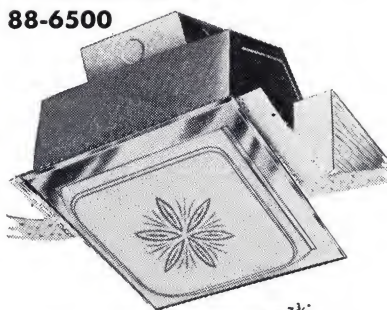
60 WATT

88-6100



100 WATT

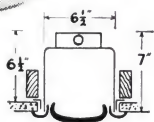
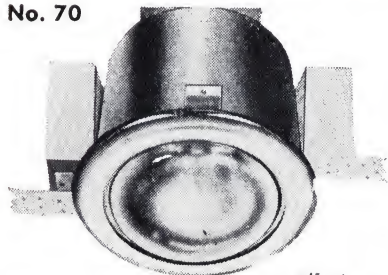
88-6500



100 WATT

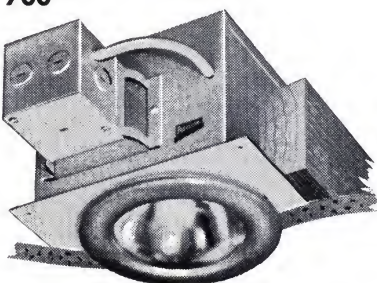
Chrome finish is standard, for aluminum or brass add "A" or "B" to Catalog Number. All finishes same price. Oven baked, white DULUX enameled frames available on all fixtures.

No. 70



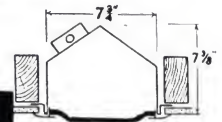
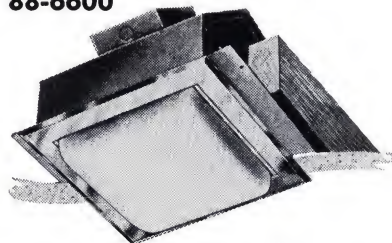
150 WATT

700



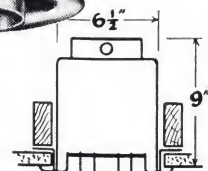
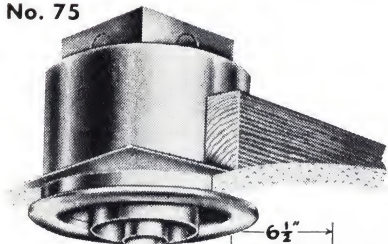
150 WATT

88-6600



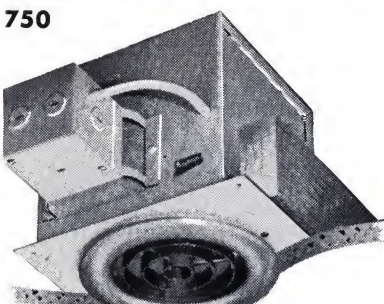
100 WATT

No. 75



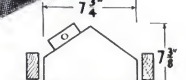
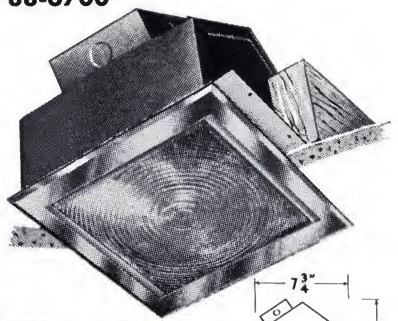
150 WATT

750



150 WATT

88-6700



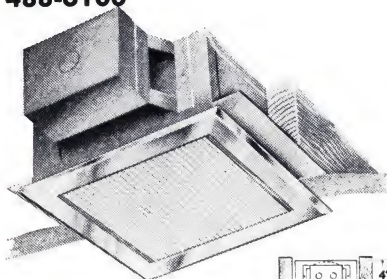
100 WATT

Relamp-A-Lite Swing-Way Hinges are standard on all 88

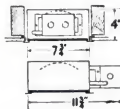
Series Fixtures



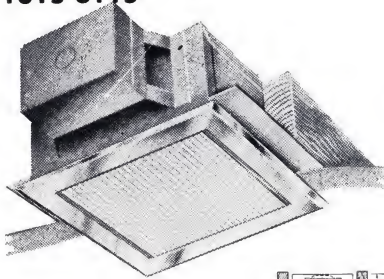
488-6100



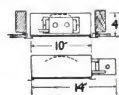
WIRED 60° C.
100 WATT



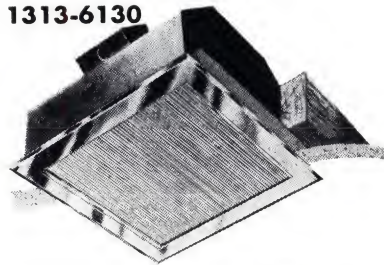
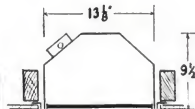
1015-6115



WIRED 60° C.
150 WATT

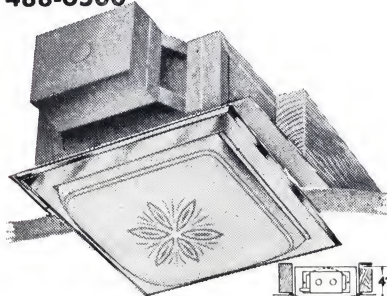


1313-6130

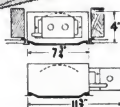
**300 WATT**

All units on this page are equipped with the patented Relamp-a-lite swing-away hinge.

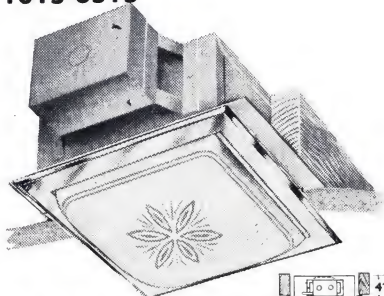
488-6500



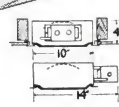
WIRED 60° C.
100 WATT



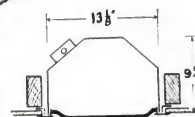
1015-6515



WIRED 60° C.
150 WATT

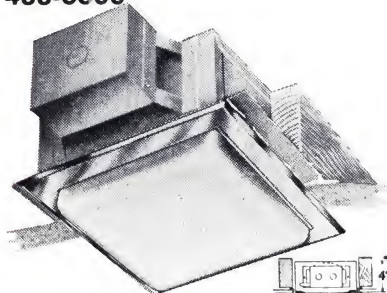


1313-6530

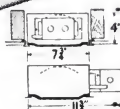
**300 WATT**

The 488 and 1015 series are wired units — approved for Type "R" Wire.

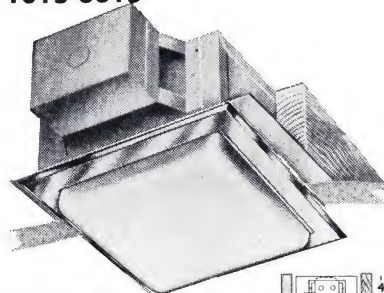
488-6600



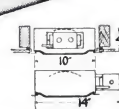
WIRED 60° C.
100 WATT



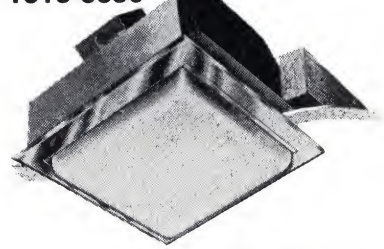
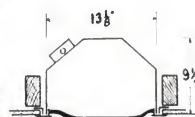
1015-6615



WIRED 60° C.
150 WATT

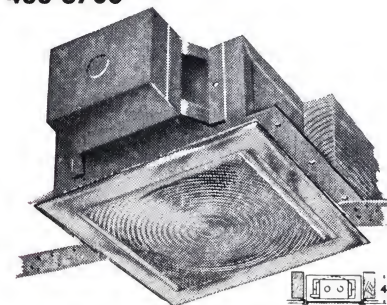
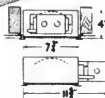


1313-6630

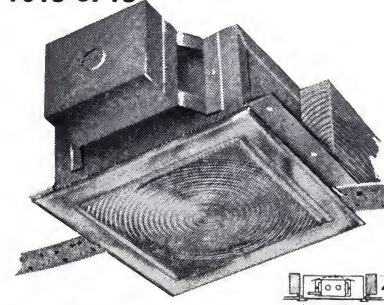
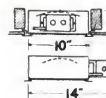
**300 WATT**

Chrome finish is standard, for aluminum or brass add "A" or "B" to Catalog Number. All finishes same price. Oven baked, white DULUX enameled frames available on all fixtures.

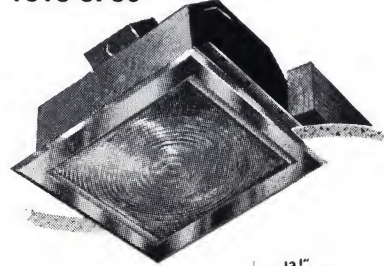
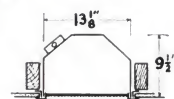
488-6700

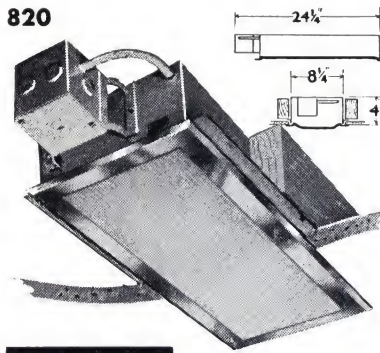
**100 WATT**

1015-6715

**150 WATT**

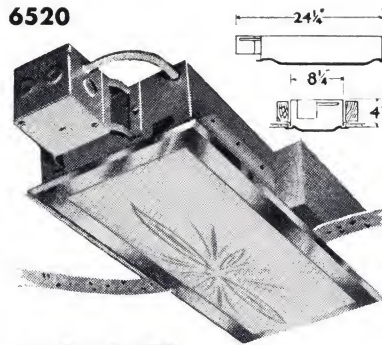
1313-6730

**300 WATT**



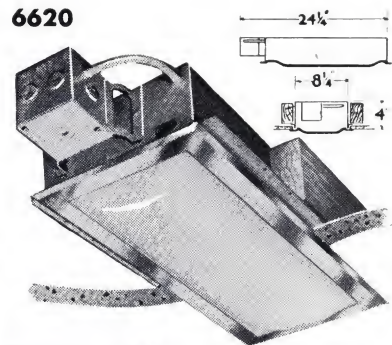
2-100 WATT

Wired 60°C



2-100 WATT

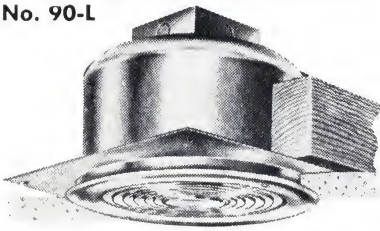
Wired 60°C



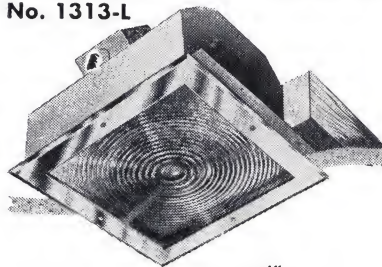
2-100 WATT

Wired 60°C

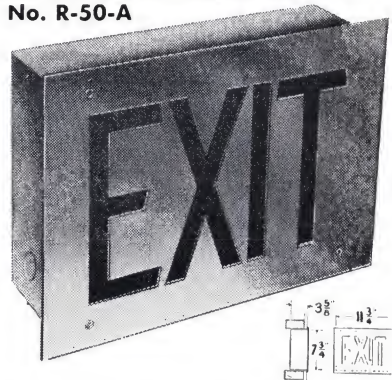
The 820, 6520, 6620 Fixtures are Wired Units — Approved for use with any Standard Building Wire No. 90-L



150 WATT



300 WATT



SWIVOLITE

Gray is Standard Finish. Other Finishes Available: Satin Chrome, Green, Coral, Bronze, Brass



A-44

150 WATT OR LESS
A-44—Ceiling Type,
Direct or Focal. No
Switch.



B-44-2

150 WATT OR LESS
B-44-2—Twin Ceiling
Type, Direct or
Focal. No Switch.



B-44-3

150 WATT OR LESS
B-44-3—Triple Ceiling
Type, Direct or
Focal. No Switch.



A-22

150 WATT OR LESS
A-22—Ceiling or
Wall Type, Direct or
Indirect. No Switch.



A-11

100 WATT OR LESS
A-11—Wall Type,
Direct or Indirect.
With Switch.



AX-44

150 WATT OR LESS
AX-44—Pipe Unit
with Swivel. Stand-
ard Overall Length
35 inches. Other
lengths available.



AX-44-2

2-150 W. OR LESS
AX-44-2—Pipe Ex-
tension Type with 2
adjustable Lights on
Cluster. Overall
Length 37 inches.



AX-44-3

3-150 W. OR LESS
AX-44-3—Pipe Ex-
tension Type with 3
Adjustable Lights
on Cluster. Overall
Length 37 inches.



B-22

150 WATT OR LESS
B-22—Portable Pro-
jector for Spot or
Floodlighting. Equip-
ped with Switch and
8-ft. Cord.



AC-11

150 WATT OR LESS
AC-11—Wall Pin-Up
with Switch, Cord
and Plug.



AKC-11

100 WATT OR LESS
AKC-11—Single
Pin-Up with Switch,
Cord and Plug.



AKC-11-2

2-100 W. OR LESS
AKC-11-2—Twin
Pin-Up with 3-Way
Switch and Cord.



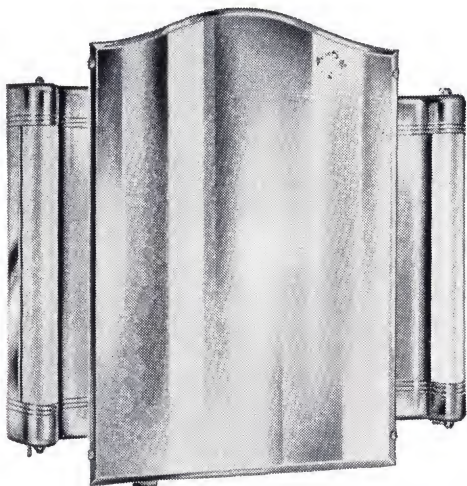
BK-11

100 WATT OR LESS
BK-11—Single Desk
Model with Switch,
Cord and Plug.



BK-11-2

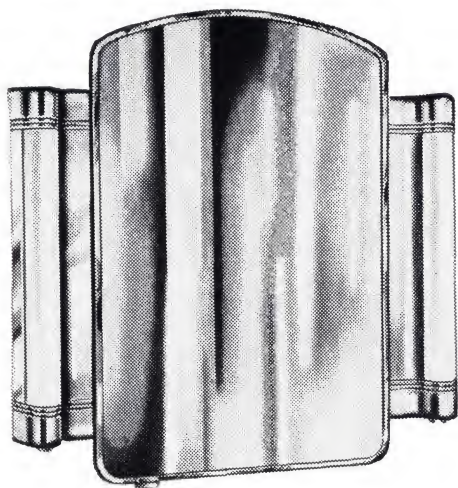
2-100 W. OR LESS
BK-11-2—Twin
Desk Model. 3-Way
Switch and Cord.

GROTE BATHROOM CABINETS**No. LMC-5189 FLUORESCENT LIGHTED MODEL**

This Aristocrat series model is equipped with beautiful chrome plated full length light fixtures. "Warmtone" tubes and starters furnished. Completely wired at the factory for easy installation and to meet Underwriters' Laboratories standards.

Seamless deep drawn body, finished in high lustre baked-on white enamel finish. Mirror: 18x28 Bow top polished bevel plate glass. Rough opening: 16x21 $\frac{1}{4}$ x3 $\frac{3}{8}$ inches.

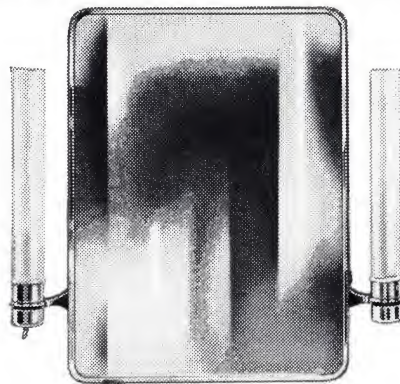
Price, Model LMC-5189 Cabinet.....\$64.80

No. LSF-5264 FLUORESCENT LIGHTED MODEL

This cabinet is equipped with the new bright chromium plated one-piece Grotelite light fixtures. It presents all of the refinements of the better type cabinets.

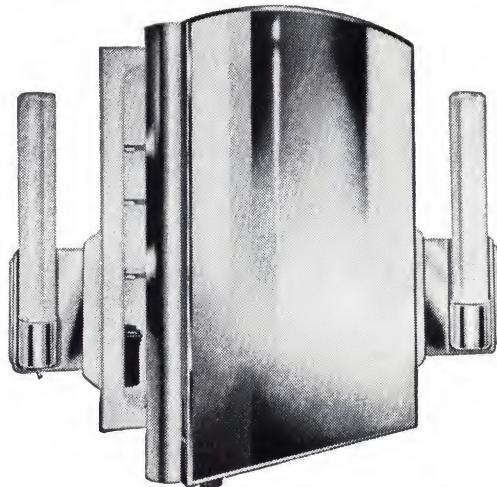
Embodies all the quality features and accessories in the Grote Aristocrat series cabinet line, except that it is smaller and minus the chromium plated hinge. Beveled plate mirror in stainless steel frame. Mirror size, 16 x 24 inches; rough opening, 13 $\frac{3}{4}$ x18 $\frac{1}{4}$ x3 $\frac{3}{8}$ inches. "Warmtone" Tubes and starters furnished. Wired to meet Underwriters' Laboratories specifications. Shipping weight, 30 lbs.

Price, Model No. LSF-5264 Cabinet.....each \$56.75

GROTE BATHROOM CABINETS**No. LSF-362 INCANDESCENT LIGHTED MODEL**

A low cost bathroom cabinet with construction features and all the latest refinements that are usually associated with a higher priced product. Frame is of polished stainless steel with a plate glass mirror. Shape of mirror, rectangular, 16 x 22 inches; rough opening, 14x18 $\frac{1}{4}$ x3 $\frac{1}{2}$ inches. Shipping weight, 28 lbs.

This modern method of bathroom cabinet lighting is very effective. Sufficient illumination is provided for the entire bathroom. This effects a substantial saving in installation cost since no other outlets are necessary in the average size bathroom. Price, Model No. LSF-362 Cabinet.....each \$34.00

No. CL-264 INCANDESCENT LIGHTED MODEL

The exclusive Stor-in-Door* feature added to a full sized roomy body afford almost twice the usual capacity.

Equipped with Grotelite heavy die-cast one-piece fixtures. Durable chromium plated and highly polished. Switch in left bracket; convenience outlet in right. White 13 inch tubular shades furnished. Bulbs not furnished. Use standard T-8 40-watt bulbs. 14 x 22 inch arched beveled top plate glass mirror held in place by streamlined chromium trim, extending over door exterior. Door interior finished in light gray hammer enamel finish, with chrome trim.

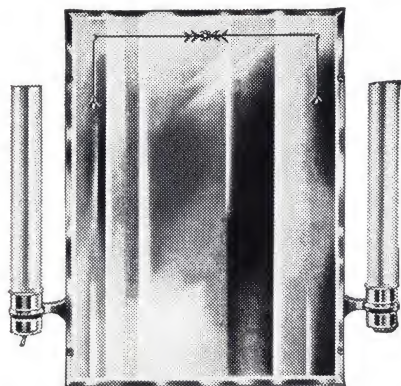
Baked-on white enamel finish. Seamless deep drawn body. Three bulb edge glass shelves in body, four in door. Rough opening: 13 $\frac{3}{4}$ x19 $\frac{1}{4}$ x3 $\frac{3}{8}$ inches. Shipping weight, 32 lbs.

Price, Model CL-264 Cabinet.....\$47.20

*Only Grote makes the Stor-in-Door. Patent pending.

GROTE BATHROOM CABINETS

No. LMC-362 LIGHTED CABINET

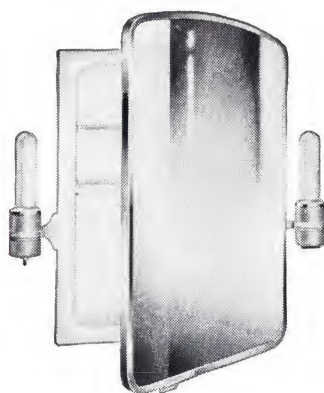


Equipped with Grotelite heavy die-cast one-piece fixtures. Durable chrome plated and highly polished. Switch in left bracket; convenience outlet in right bracket. Long shades furnished. Bulbs not supplied. Use standard T-10 40-watt bulbs. 16x22 rectangular beveled and engraved plate glass mirror, held in place by polished stainless steel clips.

Seamless deep-drawn body. Lustrous baked-on white enamel finish, "Sealtex" treated before enameling for enamel adherence and rust resistance. White enameled continuous piano type hinge — bullet catch — welded in shelf standards 1½ inches apart — chromium plated round bar door stop — plastic tooth brush holder — razor blade slot — two bulb edge glass shelves. Rough opening: 14x18¾x3½ inches. Shipping weight, 28 lbs.

Price, Model No. LMC-362 Cabinet.....each **\$35.50**

No. LSF-444 LIGHTED MODEL



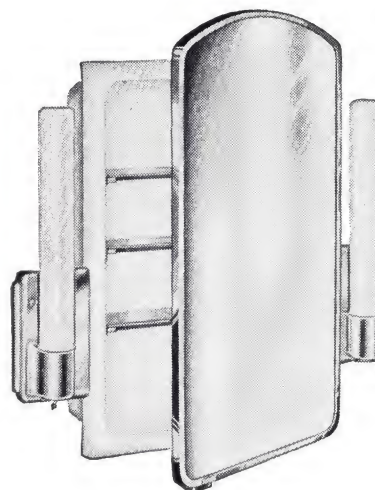
Equipped with Grotelite heavy die-cast one-piece fixtures. Light gray hammer enamel finish. Switch in left bracket; convenience outlet in right. T-10 40-watt frosted bulbs furnished. No shades required. 14 x 20 arched top plate glass mirror. Polished stainless steel frame.

Seamless deep-drawn body. Lustrous baked-on white enamel finish, "Sealtex" treated before enameling for enamel adherence and rust resistance. White enameled continuous piano hinge — bullet catch — removable shelf brackets — two bulb edge glass shelves. Rough opening: 12¼x17½x3½ inches.

Price, Model No. LSF-444 Cabinet.....each **\$28.00**

GROTE BATHROOM CABINETS

MODEL No. LSF-264 DELUXE CABINET



This lighted model furnished with chrome plated light fixtures, switch and convenience outlet.

Bright stainless steel mirror frame or mirror clips if desired. Polished plate glass mirror with quality backing. White enameled steel continuous hinge. Removable shelf brackets set in recessed standard with shelf adjustments 1 inch apart. Bulb edge glass shelves (3 furnished). Chrome-plated round bar door stop. Matched moulded plastic razor blade disposal box and tooth brush holder. Complete cabinet made of heavy gauge cold rolled steel and finished in a high lustre baked on enamel. Mirror size, 16x24 inches; rough opening, 13½x19½x3½ inches. Shipping weight, 32 lbs.

Price, Model No. LSF-264 Cabinet.....each **\$44.40**

MODEL No. SF-264 UNLIGHTED CABINET



Same details of construction as the LSF-264 except unlighted.

The beauty of design and quality construction in this unlighted cabinet makes it an outstanding value. Furnished with polished plate glass mirror. The Grote one-piece seamless body on this cabinet embodies all the quality features and accessories in the Grote line.

Mirror size, 16 x 24 inches; rough opening, 13½x18½x3½ inches.

See above for details of construction.

Shipping weight, 25 lbs.

Price, Model No. SF-264 Cabinet.....each **\$22.00**

GROTE BATHROOM CABINETS

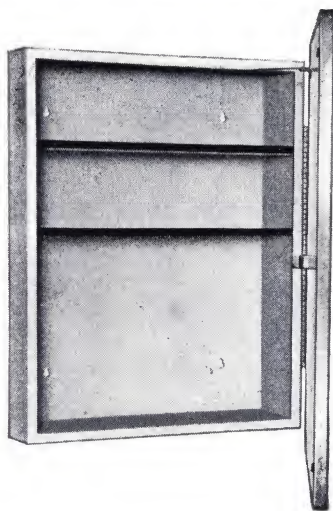
MODEL No. SF-444 CABINET



Bright stainless steel mirror frame. Polished plate glass mirror, 14x20 inches. Removable shelf brackets set in recessed standards with shelf adjustments 1 inch apart. Bulb edge glass shelves (2 furnished). Slot in cabinet body for razor blade disposal. Complete cabinet of medium gauge cold rolled steel, finished in high lustre baked on enamel. Rough opening, 12 $\frac{1}{4}$ x16 $\frac{3}{8}$ x3 $\frac{1}{2}$ inches.

Price, Model No. SF-444 Cabinet.....each **\$14.05**

MODEL No. SF-0241 SURFACE TYPE CABINET



An outstanding cabinet for surface mounting. The same Grote quality construction is maintained. Furnished with glass shelves, continuous hinge, bar door stop, bullet match and door bumpers. Stainless steel frame. 14 x 20-inch plate glass. Body dimensions, 13 $\frac{3}{4}$ x 18 x 4 inches overall. Shipping weight, 17 lbs.

Price, Model No. SF-0241 Cabinet.....each **\$11.80**

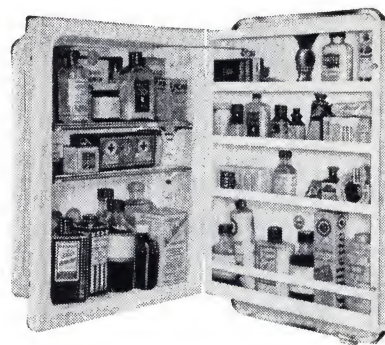
MODEL No. WF-0241 SURFACE TYPE CABINET

Same as above, except has white enamel frame and window glass mirror. Shipping weight, 15 lbs.

Price, No. WF-0241 Cabinet.....each **\$8.50**

GROTE BATHROOM CABINETS

STOR-in-DOOR* BATHROOM CABINETS



Shelves recessed inside the door allow more useable storage space — every item in the cabinet plainly visible — every article conveniently in finger-tip reach. These recessed models contain all the distinctive Grote quality features — drawn seamless steel bodies with rounded corners, gleaming white enamel finish, adjustable glass shelves.

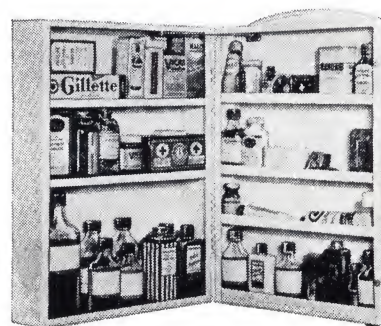
Recessed Model C-264, with Grote-in-Door features. Plate glass beveled top mirror held in place by streamlined chromium trim, extending over door interior. Piano type hinge, chromium plated. Three adjustable bulb edge shelves in body — four shelves in door. Wall opening: 13 $\frac{3}{4}$ x 16 $\frac{3}{8}$ x 3 $\frac{1}{2}$ inches. Weight, 26 lbs.

Price, C-264 with Semi-framed Plate Glass Mirror**\$27.80**

Model No. SD-440, recessed type, features Grote Stor-in-Door* with stainless steel frame on plate glass mirror. Piano-type hinge; adjustable bulb-edge shelves. Wall opening: 12 $\frac{1}{4}$ x16 $\frac{3}{8}$ x3 $\frac{1}{2}$. Shipping weight, 18 lbs.

Price, SD-440 Rectangular, Rounded Corners, Stainless Frame Plate Glass.....**\$15.50**

STOR-in-DOOR* BATHROOM CABINET



The added shelves recessed inside the door allow twice as much useful storage space — every article in the cabinet plainly visible — every item conveniently in finger-tip reach. Designed to give more usefulness to bathroom cabinets.

No. SD-1200, with arched, framed mirror and generous sized cabinet. Gleaming white enamel finish baked on all-steel cabinet. Clear window glass, size 11x19 inches. Body size—13 $\frac{3}{4}$ x18x3 inches.

Shipping weight, 10 lbs.

Price, Model No. SD-1200 Cabinet.....each **\$7.25**

*Only Grote makes the Stor-in-Door Cabinets. Patent pending.

GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish

GOODRICH SEPRABLE REFLECTORS

Patent No. 2,046,184

Easy to Install—Easy to Service

The remarkable ease with which Seprable reflectors may be installed is due to the complete "take-apart" construction of hood, socket and reflector. Simply wire the sockets and with a quarter turn, snap them into the hoods. Reflectors also attach with a quarter turn. No screws are used; there is nothing to loosen or corrode. The resilient socket cushions the lamp against vibration, maintains a firm contact, lengthens lamp life. Standard finish is

vitreous fired porcelain enamel, green outside, white inside.



Reflectors with pendant and 4-inch outlet-box hoods are listed below. When specified, right-angle hoods will be supplied at same price. For medium feed-thru hoods add \$0.20 to list price. Standard tapping ½ inch or, when specified, ¾ inch.



SEPRABLE STANDARD DOME REFLECTORS

Complete with hood and resilient keyless socket. For medium base pull-chain socket, specify and add \$0.90 to list price.

Pendant Style Cat. No.	Outlet-Box Style Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-52212	G-52512	75-100	12	10	\$3.80
G-52214	G-52514	150	14	10	4.25
G-52216	G-52516	200	16	10	4.70
G-52218	G-52518	300-500	18	5	6.10
G-52220	G-52520	750-1500	20	5	8.30

SEPRABLE SHALLOW DOME REFLECTORS

Complete with hood and resilient keyless socket. For medium base pull-chain socket, specify and add \$0.90 to list price.



Pendant Style Cat. No.	Outlet-Box Style Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-72212	G-72512	75-100	12	10	\$3.80
G-72214	G-72514	150	14	10	4.25
G-72216	G-72516	200	16	10	4.70
G-72218	G-72518	300-500	18	5	6.10

GOODRICH LIGHTING EQUIPMENT

SEPRABLE HOODS AND SOCKETS

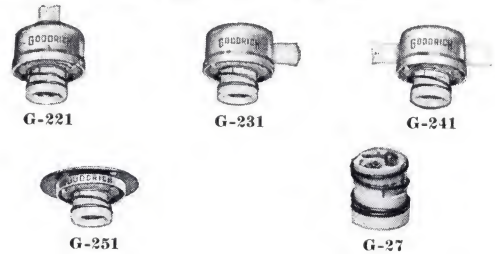
Hood and Metal Fittings are Heavily Cadmium Plated

National Electrical Code Standard

Standard tapping is ½ inch. When specified, hoods will be tapped ¾ inch at same price.

HOODS WITH MEDIUM BASE KEYLESS SOCKETS

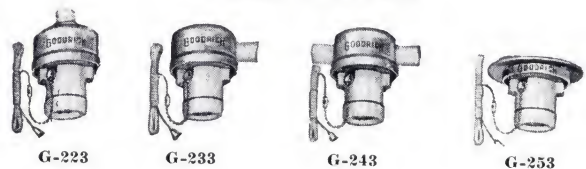
660 Watts—600 Volts



Cat. No.	Type of Fitting	Description	Std. Pkg.	List Price
G-221	Pendant	Socket with Hood	10	\$1.25
G-231	Right-Angle	Socket with Hood	10	1.25
G-241	Feed-Thru	Socket with Hood	10	1.45
G-251	Outlet-Box	Socket with Hood for 4" Standard O-B	10	1.25
G-27	.....	Socket only, with Spring	10	.85

HOODS WITH MEDIUM BASE PULL-CHAIN SOCKETS

660 Watts—250 Volts



Cat. No.	Type of Fitting	Description	Std. Pkg.	List Price
G-223	Pendant	Socket with Hood	10	\$2.15
G-233	Right-Angle	Socket with Hood	10	2.15
G-243	Feed-Thru	Socket with Hood	10	2.35
G-253	Outlet-Box	Socket with Hood for 4" Standard O-B	10	2.15
G-43	.....	Socket only	10	1.75

HOODS WITH MOGUL BASE KEYLESS SOCKETS

1500 Watts—600 Volts



Cat. No.	Type of Fitting	Description	Std. Pkg.	List Price
G-21	Pendant	Socket with Hood	10	\$1.75
G-17	Right-Angle	Socket with Hood	10	1.75
G-24	Outlet-Box	Socket with Hood for 4" Standard O-B	10	1.75
G-28	.....	Socket only	10	1.25

GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish



DISKONECT FLAT CONE REFLECTOR

Complete with hood and resilient keyless socket.

Pendant Style Cat. No.	Outlet-Box Style Cat. No.	Lamp Size	Diam. In.	Std. Pkg.	List Price
G-83214	G-83514	100	14	10	\$4.95
G-83216	G-83516	150	16	10	5.40
G-83218	G-83518	200	18	10	5.85

RLM DOME SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket. For medium base pull-chain socket, specify and add \$0.90 to list price.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-50212	75-100	12	10	\$3.80
G-50214	150	14	10	4.25
G-50216	200	16	10	4.70
G-50218	300-500	18	5	6.10
G-50220	750-1500	20	5	8.30

SHALLOW DOME SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket. For medium base pull-chain socket, specify and add \$0.90 to list price.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-70211	60	12	10	\$3.70
G-70212	75-100	12	10	3.80
G-70214	150	14	10	4.25
G-70216	200	16	10	4.70
G-70218	300-500	18	5	6.10

FLAT CONE SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-80214	100	14	10	\$3.80
G-80216	150	16	10	4.25
G-80218	200	18	10	4.70
G-80238	500	18	5	5.30

FLAT CONE SHADE-HOLDER REFLECTORS



Cat. No.	Lamp Size	Diameter Inches	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
G-85012	60-100	12	10	12	\$1.95
G-85014	150	14	10	17	2.20
G-85016	200	16	10	22	2.90

GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish



RLM BOWL SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket. For medium base pull-chain socket, specify and add \$0.90 to list price.

Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-60207	60	7	10	\$3.35
G-60208	75-100	8	10	3.55
G-60210	150	10	10	4.05
G-60220	200	10	10	4.05
G-60212	300-500	12	5	6.00
G-60216	750-1500	16	5	7.35

RLM ANGLE SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket. For medium base pull-chain socket, specify and add \$0.90 to list price.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-90208	60	8	10	\$3.40
G-90228	75-100	8	10	3.40
G-90210	150	10	10	3.95
G-90212	200	12	10	4.55
G-90214	300-500	14	5	5.70
G-90216	750-1500	16	5	8.75
G-90218	750-1500	18	5	14.40

ELLIPTICAL ANGLE SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket. For medium base pull-chain socket, specify and add \$0.90 to list price.



Cat. No.	Lamp Size	Std. Pkg.	List Price
G-40228	75-100	10	\$4.05
G-40229	150	10	4.85
G-40230	200	10	5.50
G-40232	300-500	5	10.00
G-40234	750-1500	2	11.15

KEYSTONE ANGLE SOCKET-REFLECTORS

Complete with non-adjustable two-piece socket. For medium base pull-chain socket, specify and add \$0.90 to list price.



Cat. No.	Lamp Size	Std. Pkg.	List Price
G-30228	75-100	10	\$4.05
G-30229	150	10	4.85
G-30230	200	10	5.50

GOODRICH LIGHTING EQUIPMENT

KEYSTONE EMBLEM SIGN REFLECTORS



The Keystone Reflector is designed for the illumination of square or rectangular signs, and distributes the light over the entire surface of the sign without overlapping at the corners or edges. Standard finish, green outside, white inside. Standard tapping is ½ inch, ¾ inch when specified.

Cat. No.	Lamp Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
G-940	40-60	10	25	\$3.25
G-941	75-100	10	25	3.25
G-945	150	10	33	3.95

ROUND EMBLEM SIGN REFLECTORS

The Round Reflector is designed for the illumination of circular signs or signs without square corners. The duo-bowl reflector with its greater reflecting surface has a correspondingly greater efficiency than most similar reflectors. Standard finish, green outside, white inside. Standard tapping is ½ inch, ¾ inch when specified.



Cat. No.	Lamp Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
G-907	40-60	10	25	\$3.00
G-908	75-100	10	25	3.00
G-910	150	10	33	3.20

STANDARD DOME OUTLET-BOX REFLECTORS



Complete with keyless socket. Fits 4 inch standard outlet-box. Standard finish, green outside, white inside. For pull-chain socket specify and add \$0.90 to list price.

Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-54512	60-100	12	10	\$3.15
G-54514	150	14	10	3.50
G-54516	200	16	10	3.95

SHALLOW DOME OUTLET-BOX REFLECTORS

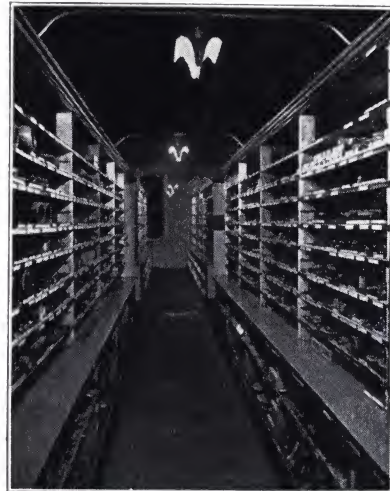
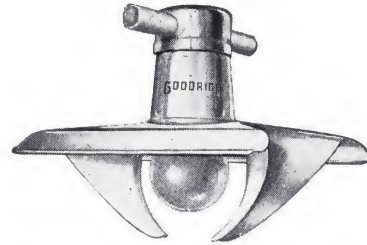
Complete with keyless socket. Fits 4 inch standard outlet-box. Standard finish, green outside, white inside. For pull-chain socket specify and add \$0.90 to list price.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-74510	25-60	10	10	\$2.90
G-74512	60-100	12	10	3.15
G-74514	150	14	10	3.50
G-74516	200	16	10	3.95

GOODRICH LIGHTING EQUIPMENT

Porcelain Enameled—Weatherproof
With Keyless Socket
STOCKLITES
Patent No. 1,894,227



Light is directed to the sides, providing adequate illumination from top to bottom shelves and into bin interiors. Aisle glare is eliminated by the curved V-shaped flanges which also help to build up light intensities where it is needed. The Stocklite improves working conditions and makes possible faster, more accurate handling of orders. Equipped with Seprable hood, the Stocklite is easily attached or detached without the use of tools, and without disturbing the wiring. Standard finish white inside and outside. Fixtures listed below are supplied with keyless sockets. For pull-chain socket specify and add \$0.90 to list price.

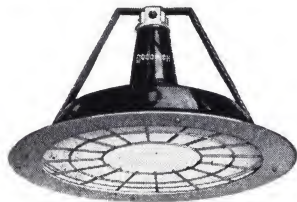
Cat. No.	Lamp Size	Dimensions, Inches—	Std. Pkg.	List Price
With Pendant Hood—Tapped for ½-Inch Conduit				
G-5288	50-60	8½ 12¼ 8¾	8 25	\$4.50
G-5289	100	8½ 12¼ 9¾	8 26	4.65
G-5290	150	8½ 12¼ 10½	8 27	4.80
G-5291	200	8½ 12¼ 11¼	8 28	4.95
With Right-Angle Hood—Tapped for ½-Inch Conduit				
G-5388	50-60	8½ 12¼ 8¾	8 24	4.50
G-5389	100	8½ 12¼ 9¾	8 25	4.65
G-5390	150	8½ 12¼ 10¼	8 26	4.80
G-5391	200	8½ 12¼ 11	8 27	4.95
With Feed-Thru Hood—Tapped for ½-Inch Conduit				
G-5488	50-60	8½ 12¼ 8¾	8 24	4.70
G-5489	100	8½ 12¼ 9¾	8 25	4.85
G-5490	150	8½ 12¼ 10¼	8 26	5.00
G-5491	200	8½ 12¼ 11	8 27	5.15
With Outlet-Box Hood—Fits 4-Inch Standard Outlet-Box				
G-5588	50-60	8½ 12¼ 7¼	8 23	4.50
G-5589	100	8½ 12¼ 8½	8 24	4.65
G-5590	150	8½ 12¼ 9¾	8 25	4.80
G-5591	200	8½ 12¼ 9¾	8 26	4.95
Reflector Only, Without Hood or Socket				
G-5088	50-60	8½ 12¼ 6¾	8 19	3.25
G-5089	100	8½ 12¼ 8¾	8 20	3.40
G-5090	150	8½ 12¼ 8¾	8 21	3.55
G-5091	200	8½ 12¼ 9½	8 22	3.70

GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish

FLUSH MOUNTING GYMNASIUM FIXTURE

With Open Type Guard for Servicing From Below



Fixture is designed for installation and servicing from below. Equipped with Standard Dome Reflector. As the fixture is mounted flush, the ceiling is free from obstruction. Center opening in guard allows for easy

lamp replacement. No. 511 plaster ring is supplied only when ordered. Standard finish of finishing ring and guard is sprayed aluminum.

With Open Type Guard for Servicing from Below

Cat. No.	Lamp Size	Reflector Diam.	Std. Pkg.	Pkg. Wt.	List Price
G-5218	300-500	18	1	28	\$25.00

With Hinged Glass and Guard for Servicing from Below

Cat. No.	Lamp Size	Reflector Diam.	Std. Pkg.	Pkg. Wt.	List Price
G-5418	300-500	18	1	30	35.00

No. G-511 Plaster Ring for No. 5218, \$8.00.

SURFACE MOUNTING GYMNASIUM FIXTURES

Open Type Guard for Servicing From Below

Sturdily constructed to withstand shocks and jars. Equipped with RLM Dome Reflector. Conical housing is made from heavy gauge steel, and independently mounted to afford maximum protection for reflector and lamp. Guard has center opening for easy lamp replacement. Standard finish of housing and wire guard is buff paint enamel.



Cat. No.	Lamp Size	Ref. Diam.	Std. Pkg.	List Price
G-5410	200	16	1	\$22.00
G-5411	300-500	18	1	25.00



YARD LIGHTS

Provides a wide spread of diffused light. Separable reflector with take-apart construction permits easy installation and servicing. Reflector is porcelain enameled, green outside, white inside. Hood, stem, wall flange and lag screws are cadmium plated.

Cat. No.	Diam.	Overall Length	Std. Pkg.	List Price
G-7232	12	26	5	\$5.15
G-7234	14	27	5	5.60

CANOPY ALIGNERS

Aligners are non-twisting and permit self-alignment of reflectors and fixtures allowing them to hang vertically regardless of position of outlet-box. Supplied with strap for mounting on 3/4 or 4 inch standard outlet-box.



Porcelain Finish					Cadmium Finish	
Tapping	Std. Pkg.	White Cat. No.	Green Cat. No.	List Price	Cat. No.	List Price
Standard Type						
1/2	10	G-2141	G-2151	\$1.95	G-2131	\$1.75
3/4	10	G-2142	G-2152	1.95	G-2132	1.75
Shock-Absorbing Type						
1/2	10	G-2143	G-2153	2.30	G-2133	2.10

GOODRICH LIGHTING EQUIPMENT

SWIVEL HANGER COVERS

Ball Type—Without Cushion



OB-8438R



OB-8458R



OB-8448R

Swivel hanger covers are of a new simplified design with a free swing of 30 degrees in all directions from plumb. Galvanized.

Cat. No.	Size Hub Inches	Std. Pkg.	Wt. Lbs. Per 100
For 3/4 and 4-inch Octagonal Outlet Boxes			
OB-8438R	1/2	100	58
OB-8436R	3/4	100	60
For 4-inch Square Outlet Boxes			
OB-8458R	1/2	100	67
OB-8459R	3/4	100	69
For 4 1/2-inch Diameter Concrete Rings			
OB-8448R	1/2	100	61
OB-8449R	3/4	100	63

GOODRICH EXIT FIXTURES

CEILING EXIT FIXTURE

Fixture of heavy gauge construction, electro-plated cadmium finish. Statuary bronze finish at same price. Triangular Ruby glass globe with 4-inch white letters.



Cat. No.	Diam. Canopy	Globe No.	Std. Pkg.	List Price
G31141	5	G30141	12	\$11.78

BRACKET EXIT FIXTURE

Same as above with Wedge type Ruby glass globe with 5-inch white letters.

Cat. No.	Diam. Canopy	Globe No.	List Price
G31251	5	G30251	\$11.40

Standard package, 12.



EXIT GLOBES



G-30141



G-30241



G-30351

Natural Ruby glass globes, diffused inside and supplied with white letters only.

Cat. No.	Height of Letters	Fitter Width	Dimensions Height	Std. Pkg.	List Price
For Ceiling Mounting—Lettered on Three Sides					
G-30141	4	3 1/4	7 7 1/4	12	\$6.78
For Wall Mounting—Lettered on Two Sides					
G-30241	4	3 1/4	7 5 1/2	12	4.48
For Ceiling Mounting—Lettered on Two Sides					
G-30351	5	3 1/4	7 8 3/8	12	6.40

No. G-30241 can be supplied lettered MEN, WOMEN, STAIRS or FIRE ESCAPE, when specified, at same price.

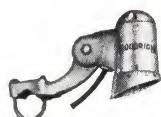
GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish

FLOODLIGHTS WITH POLE, BRACKET AND CROSSARM MOUNTING HOODS



Pole Mounting



Bracket Mounting

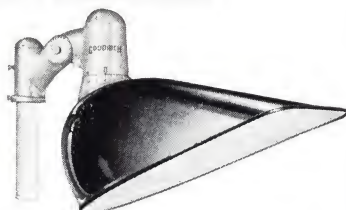


Crossarm Mounting

Floodlights are finished in vitreous fired porcelain enamel which is easily cleaned to retain its original high efficiency. Equipped with cast ventilated hood which allows floodlight to be completely removed from the hood without disturbing the wiring. During installation and wiring, only the hood is handled instead of the heavier complete unit. Hoods provide for complete vertical and lateral positioning. Pole mounting hoods are concealed wiring style for mounting on 2-inch pipe or, when specified, on 1½-inch pipe. Bracket mounting hoods are open wiring style and may be clamped on 1-inch to 2-inch iron pipe or attached to wooden crossarm or other flat surface, and are furnished with threaded wire entrance bushing which may be replaced with BX connector. Crossarm mounting hood is open-wiring style. May be attached to any flat surface. Allows for vertical and lateral positioning. Automatic stop assures the reflector being returned to its exact original position.

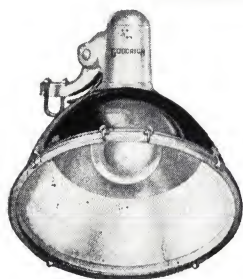
DIFFUSO FLOODLIGHTS

Large, seamless, one-piece construction. This floodlight is recommended for evenly illuminating large areas. Standard finish, green outside, white inside.



Cat. No.	Style	Lamp Size	Std. Pkg.	List Price
G-95	Pole Mtg.	300-500	1	\$31.20
G-90	Pole Mtg.	750-1500	1	36.00
G-96	Bracket Mtg.	300-500	1	28.80
G-91	Bracket Mtg.	750-1500	1	33.60
G-97	Crossarm Mtg.	300-500	1	30.60
G-92	Crossarm Mtg.	750-1500	1	35.40

SPORTO FLOODLIGHTS



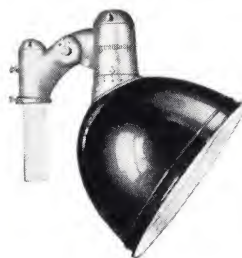
Designed for outdoor recreational areas, the combination of diffusing porcelain enameled floodlight and the more specular alzak aluminum projector provides correct vertical and lateral distribution for both nearby and distant areas. Enclosed floodlights supplied with heat resisting lens.

Cat. No.	Style	Lamp Size	List Price
G-8524	Pole Mtg.—Open	750-1500	\$26.50
G-8624	Pole Mtg.—Enclosed	750-1500	44.50
G-8534	Bracket Mtg.—Open	750-1500	24.10
G-8634	Bracket Mtg.—Enclosed	750-1500	42.10
G-8544	Crossarm Mtg.—Open	750-1500	25.90
G-8644	Crossarm Mtg.—Enclosed	750-1500	43.90

GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish

REFLECTO FLOODLIGHTS

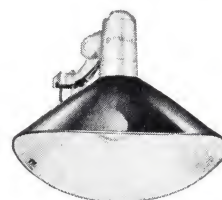


Designed for service where a given area or structure is to be uniformly illuminated to a high intensity. Floodlight is listed below in the open style only. Can be supplied with hinged watertight glass lens at prices quoted on request. Standard finish, green outside, white inside.

Cat. No.	Style	Lamp Size	Std. Pkg.	List Price
G-85	Pole Mtg.	300-500	1	\$21.60
G-80	Pole Mtg.	750-1500	1	22.80
G-87	Bracket Mtg.	300-500	1	19.20
G-83	Bracket Mtg.	750-1500	1	20.40
G-8742	Crossarm Mtg.	300-500	1	21.00
G-8744	Crossarm Mtg.	750-1500	1	22.20

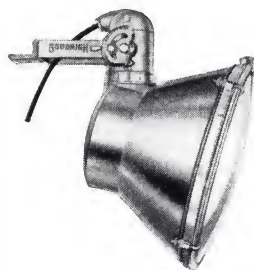
ELIPSO FLOODLIGHTS

Particularly adapted to the illumination of areas where a wide lateral distribution of light is required. Standard finish, green outside, white inside.



Cat. No.	Style	Lamp Size	Std. Pkg.	List Price
G-4522	Pole Mtg.	300-500	1	\$21.60
G-4524	Pole Mtg.	750-1500	1	22.80
G-4532	Bracket Mtg.	300-500	1	19.20
G-4534	Bracket Mtg.	750-1500	1	20.40
G-4542	Crossarm Mtg.	300-500	1	21.00
G-4544	Crossarm Mtg.	750-1500	1	22.20

LUMO ALUMINUM FLOODLIGHTS



Designed for general purpose floodlighting of areas requiring a more concentrated distribution of light. Floodlight is listed below with hinged watertight glass lens. For open style, without glass cover, specify and deduct \$18.00 list. Standard finish is alzak aluminum.

Enclosed Style Lumo Floodlights 750-1500 Watt

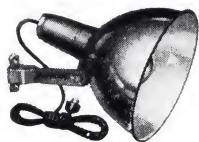
Cat. No.	Style Mounting	Beam Spread	Std. Pkg.	Pkg. Wt.	List Price
G-7624	Pole	Narrow	1	24	\$60.60
G-7625	Pole	Medium	1	24	52.60
G-7634	Bracket	Narrow	1	24	58.20
G-7635	Bracket	Medium	1	24	50.20
G-7644	Crossarm	Narrow	1	24	60.00
G-7645	Crossarm	Medium	1	24	52.00

Lumo Floodlights with Cast Aluminum Cover Assembly and Heat Resisting Glass Lens

Cat. No.	Style	Beam Spread	Std. Pkg.	Pkg. Wt.	List Price
G-7624C	Pole	Narrow	1	27	\$84.45
G-7625C	Pole	Medium	1	27	76.45
G-7634C	Bracket	Narrow	1	27	82.05
G-7635C	Bracket	Medium	1	27	74.05
G-7644C	Crossarm	Narrow	1	27	83.85
G-7645C	Crossarm	Medium	1	27	75.85

GOODRICH LIGHTING EQUIPMENT

Permanent Porcelain Enamel Finish

PORTABLE OUTDOOR FLOODLIGHTS**FLEXOLITE WITH BRACKET ARM**

An economical porcelain enameled weatherproof floodlight, supplied with bracket arm and mounting plate. Provides universal adjustment for horizontal and vertical positioning. Supplied with 8 feet of duplex rubber covered cord with plug and Underwriters' approved medium base socket.

Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-1372	75-100	8	1	\$5.60
G-1374	200-300*	10	1	6.00

*300 watt medium base.

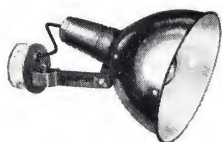
FLEXOLITE WITH PIPE BRACKET

An economical porcelain enameled weatherproof floodlight designed for mounting on 1/2 inch conduit or, when specified, 3/4 inch. Designed for concealed wiring. Underwriters' approved medium base socket.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-1382	75-100	8	1	\$6.60
G-1384	200-300*	10	1	7.00

*300 watt medium base.

FLOODLIGHT WITH OUTLET-BOX BRACKET

No. G-1394

Equipped with adjustable bracket arm and a bushed cord-entrance cover for mounting on 3/4-inch or 4-inch standard outlet-box. Supplied with two feet of duplex rubber covered cord and Underwriters' approved medium base socket.

Cat. No.	Lamp Size	Diam. Inches	Std. Pkg.	Shpg. Wt. Lbs.	List Price
G-1392	100	8	1	5	\$6.60
G-1394	200-300*	10	1	6	7.00

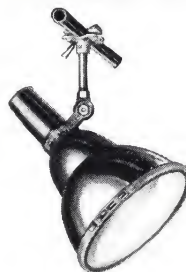
*300 watt medium base.

FLOODLIGHT WITH CAST BASE

Supplied with watertight glass lens. Floodlight is entirely weatherproof. Completely adjustable for vertical and horizontal positioning. Equipped with 8 feet of rubber duplex cord with attachment plug.



Cat. No.	Lamp Size	Diam.	Std. Pkg.	List Price
G-6	75-150	8	1	\$8.05
G-7	200	10	1	13.00
G-5	300-500	10	1	14.20

GOODRICH LIGHTING EQUIPMENT**PORTABLE OUTDOOR FLOODLIGHTS**

No. G-575



No. G-555

Especially designed for outdoor illumination of buildings, driveways, entrances, temporary signs, outdoor greasing pits, lift areas, etc.

Made of heavy gauge rustless iron, and finished with three coats of vitreous fired green porcelain enamel. Bracket arm clamps on 1 to 2-inch pipe; Pipe bracket, standard tapping 1/2-inch; 3/4-inch when specified. Standard package, 1.

Floodlight with Watertight Glass Lens

Cat. No.	Lamp Size	Diam. In.	Style Mounting	Pkg. Wt.	List Price
G-575	300-500	10	Bracket Arm	13	\$15.40
G-555	300-500	10	Pipe Bracket	11	14.20

OPEN AND ENCLOSED PORCELAIN ENAMELED FLOODLIGHTS

No. G-7321



No. G-7334

Designed for general purpose floodlighting to produce evenly diffused illumination over a given area. Reflectors are permanently finished inside and outside with vitreous fired porcelain enamel and are supplied with or without watertight glass lens.

Bracket arm style is equipped with adjustable bracket arm for clamping on 1 or 2 inch pipe, or it may be attached to crossarm or other flat surface.

Pipe bracket style is equipped with an adjustable cast fitting tapped for 1/2-inch conduit. When specified, 3/4-inch tapping will be supplied at same price. Designed for concealed wiring.

Floodlight with Bracket Arm

Cat. No.	Lamp Size	Description	List Price
G-7321	300- 500	Without Glass Lens....	\$16.10
G-7322	300- 500	With Clear Glass Lens	22.30
G-7323	750-1000	Without Glass Lens....	17.30
G-7324	750-1000	With Clear Glass Lens	23.50

Floodlight with Pipe Bracket

G-7331	300- 500	Without Glass Lens....	14.90
G-7332	300- 500	With Clear Glass Lens	21.10
G-7333	750-1000	Without Glass Lens....	16.10
G-7334	750-1000	With Clear Glass Lens	22.30

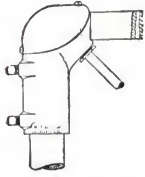
Standard package, 1.

REVERE ALZAK ALUMINUM 18 AND 20-INCH
REAR SERVICE FLOODLIGHT

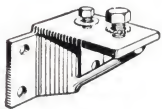
No. 2000 Series 35° and 75° Floodlight—For 750-1000-1500 Watt Lamps

Underwriters' Approved

Mountings



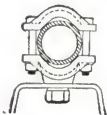
Slip Fitter
for 1½" to 2" pipe.



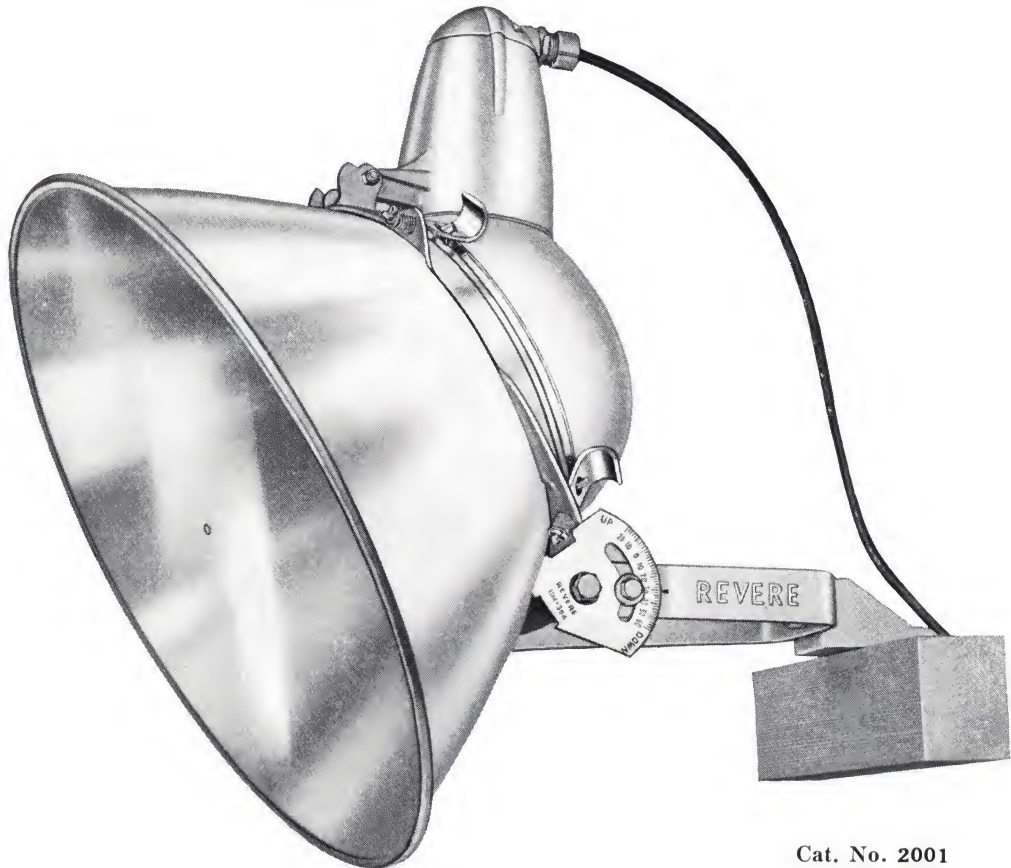
No. 217-MP Wall or
Wood Pole Bracket
for use with Cross
Arm Mounting.



Flat Base
(Hole size 1½")



Clamp Fitter
for 1" to 2" pipe.



Cat. No. 2001

This Revere Floodlight was developed originally to meet the needs for "long range" floodlighting applications. Its concentrating high candlepower beam provides efficient illumination of areas such as stadia, railroad yards, golf driving ranges and other areas where the floodlight is to be mounted some distance from the area to be lighted.

Many unusual features have been incorporated in the design to provide the ultimate in efficiency, and simplicity of installation and maintenance. Since the introduction of the 20-inch unit, there was a demand for the incorporation of the same features in a medium spread 18-inch floodlight utilizing a majority of the same parts. The resultant design has made possible the interchange-

ability of reflectors and glass by simply removing four screws. Settings of focus remain undisturbed.

The entire floodlight is mounted in one-piece cast aluminum trunnion adapter which encircles and is attached rigidly to the front section reflector. A hot dip galvanized steel yoke is attached to the trunnion casting. The unit is available with cross arm, 1½-inch slip fitter, 2-inch slip fitter, pipe clamp mounting or flat base.

The socket cap is provided with a water-tight packing gland through which a No. 12 two-conductor rubber covered cable can be passed.

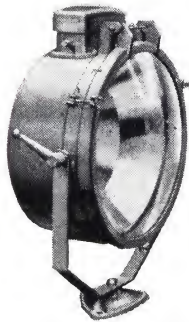
The unit is designed for use with a 750, 1000 or 1500 watt PS-32 clear bulb general service lamp with mogul screw base.

Mounting	*20 ¾ Inches Diameter				*18 Inches Diameter			
	20° Spread Nema Type 2 Group B		50° Spread Nema Type 4 Group B		35° Spread Nema Type 3 Group B		75° Spread Nema Type 5 Group B	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
Yoke only	2000	\$59.00	2010	\$52.00	2030	\$50.00	2040	\$43.00
Crossarm	2001	60.00	2011	53.00	2031	51.00	2041	44.00
1½" Slip Fitter	2002	62.00	2012	55.00	2032	53.00	2042	46.00
2" Slip Fitter	2003	62.00	2013	55.00	2033	53.00	2043	46.00
Clamp 1" to 2" Pipe	2004	61.00	2014	54.00	2034	52.00	2044	45.00
Flat Base	2005	.....	2015	.....	2035	.....	2045	.....

* Also available for pendant mounting for use with messenger cable or lowering devices. Information on request.

REVERE FLOODLIGHTS

VENTILATED AND WEATHERPROOF No. 6500
LINE OF 750-1000 WATT FLOODLIGHTS



The housing of this floodlight is of heavy gauge steel, having a cast iron front frame and lens ring door with wing-nut and eye-bolt latches to secure door frame against an impregnated asbestos gasket in frame casting. The housing is scientifically ventilated and effectively excludes rain, snow and insects.

A simple and easily operated lamp focusing mechanism produces a narrow or wide spread of light to suit every application. The silver mirrored glass reflector has been designed for maximum efficiency for all lamp positions. The reflectors are of the narrow beam type with plain smooth surface, or of medium spread type with a stippled finish.

Plain, stippled and ribbed lenses are available with a choice of lens, reflector and lamp focusing, and degree of spread from narrow (20° using plain lens, narrow beam reflector and with lamp at focus) to wide (90° using a stippled lens, medium beam reflector and with lamp ahead of focus) can be had.

The ribbed lens provides a rectangular horizontal only; when a vertical spread only is desired the lens may be rotated 90°.

Dimensions: Lens 18 inches; height 28 inches; width 22 inches; depth 13½ inches.

Narrow Beam Floodlights

Mounting	Plain Lens	Cat. No. Stippled Lens	Ribbed Lens	Price Each
Yoke only	6500-P	6500-S	6500-R	\$83.00
Cross Arm	6501-P	6501-S	6501-R	84.00
1½" Slip Fitter	6502-P	6502-S	6502-R	86.00
2" Slip Fitter	6503-P	6503-S	6503-R	86.50
Clamp 1" to 2"				
Pipe	6504-P	6504-S	6504-R	86.00
Flat Base	6505-P	6505-S	6505-R	85.00
Wall or Wood				
Pole Mtg.	6508-P	6508-S	6508-R	89.00

Medium Beam Floodlights

Yoke only	6510-P	6510-S	6510-R	83.00
Cross Arm	6511-P	6511-S	6511-R	84.00
1½" Slip Fitter	6512-P	6512-S	6512-R	86.00
2" Slip Fitter	6513-P	6513-S	6513-R	86.50
Clamp 1" to 2"				
Pipe	6514-P	6514-S	6514-R	86.00
Flat Base	6515-P	6515-S	6515-R	85.00
Wall or Wood				
Pole Mtg.	6518-P	6518-S	6518-R	89.00

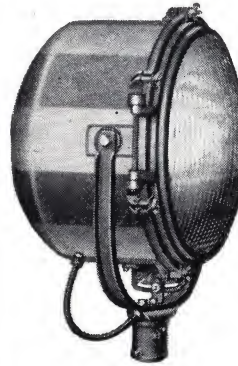
Accessories

No. 4686 Plain Lens (glass only).....	\$12.00
No. 4688 Stippled Lens (glass only).....	12.00
No. 4687 Ribbed Lens (glass only).....	12.00
No. 4223 Adapter to change floodlight to use 1000 or 1500 watt "G" bulb floodlight lamps	2.00
No. 6150-44 Stippled Reflector only (medium beam)	16.50
No. 6150-1 Plain Reflector only (narrow beam)	16.50

REVERE FLOODLIGHTS

1500 OR 3000 WATT 24-INCH AIRPORT
FLOODLIGHT

Army-Navy Aeronautical Specification AN-L-5a



The 7200 series Airport Floodlight is the ideal unit for illumination of large landing fields, as it provides a greater factor of safety for night take-off and landing than other types of general floodlights.

This unit differs from other Airport Lighting units because it is obtainable with a variety of spread lenses. When used in banks of two or more, uniform illumination may be obtained by overlapping of the beams,

thus providing high intensity illumination on the runway or landing area.

The housing is a one-piece aluminum alloy casting, dust-tight and weather-proof. The large area through which the heat is dissipated makes it unnecessary to provide ventilation.

The main reflector is ground and polished and is of the highest type commercial precision mirror. It is provided with an auxiliary spherical reflector in front of the lamp, redirecting spill light to the main reflector, thereby increasing the efficiency and eliminating stray light which is so objectionable to pilots.

The door frame is made of cast aluminum alloy, rugged in construction, hinged at the side and provided with a channel in which is mounted an impregnated asbestos gasket.

Lens of heat-resisting glass, 25 inches in diameter, produces a horizontal spread of approximately 10, 30, or 80 degrees in accordance with Army-Navy Specification AN-L-3a.

Two-pole terminal block is provided in the lower interior of the floodlight housing.

Mogul BiPost receptacle is accurately adjusted at the factory for correct focal position of the lamp. Other types of receptacles furnished on application.

Standard mounting, bronze fitter to slip 2½-in. pipe. Other types of mountings furnished on application.

Finished in International orange and white stripes. Other finishes available.

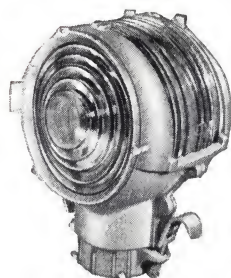
The bronze quadrant is graduated in degrees to provide accurate setting of floodlight, with locking clamp.

Lamps used are 1500 watt, 32 volt, T-24 bulb; 3000 watt, 32 volt, T-32 bulb; Mogul BiPost base, Airport Floodlight Service.

Description 24-in. Floodlight	For 1500 W. Lamps	For 3000 W. Lamps	Price Each
	Cat. No.	Cat. No.	
With Plain Lens	7201	7205	\$585.00
With 10° Horiz. Spread Lens	7202	7206	585.00
With 30° Horiz. Spread Lens	7203	7207	585.00
With 80° Horiz. Spread Lens	7204	7208	585.00

REVERE LIGHTING FOR NIGHT-TIME FLYING

HIGH INTENSITY RUNWAY MARKER Bi-Directional Type—C.A.A. Spec. L-819



Recommended for installation where adverse weather conditions prevail. If extreme adverse atmospheric conditions prevail, such as found in fog-bound coastal areas, the super-high intensity runway marker should be used.

Designed for use with a single 200 watt, T-14, 6.6 ampere medium prefocus base airport marker lamp. The optical system consists

of two doublet lens systems back to back and a Prismatic diffusing panel over the top. Two beams of light are projected up and down the runway by the fixed focus lenses.

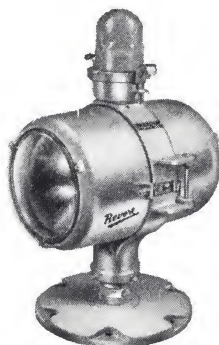
The lamp housing is made of cast aluminum and supports the optical parts. The socket is mounted on an aluminum adapter casting. The lamp housing slips on over the adapter and is held in place by two spring-loaded hood-type latches. The parts are keyed to each other so that proper alignment is assured. A cast iron base cover and breakable coupling is furnished to fit an "ANC" deep or shallow base.

Water tight disconnecting cable sets are provided; these conform to C.A.A. Spec. L-823, Nos. 45-64 and 45-65. The receptacle, No. 45-65, is provided with a flange to provide a water tight seal in the base cover. Spare parts available.

Cat. No.	Description	Price Each
7600	With all Clear Lens.....	\$89.50
7601	With Clear and Yellow Lens.....	90.00
7602	With all Green Lens.....	93.00
7603	With all Blue Lens.....	93.00

ULTRA-HIGH INTENSITY RUNWAY MARKER Uni-Directional or Bi-Directional Type C.C.A. Spec. L-820

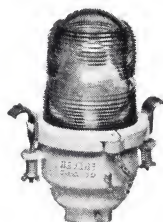
This marker employs two highly efficient sealed beam projector lamps plus an auxiliary lamp operated from independent circuits. For clear weather, the auxiliary top lens of medium candlepower is adequate. When low visibility conditions are encountered the high candlepower projector lamps are used. By using brightness control equipment, varying degrees of illumination can be had. The improved design incorporates a cast aluminum 2-piece housing to accommodate the sealed beam lamps. The housing is provided with an impact, heat-resisting lens held in place by means of metal clips. The lenses are available in clear (white) or colors. The housing assembly is supported by a central chassis casting hinged at the side. Markings provide easy setting to any vertical angle from horizontal to 30 degrees above horizontal and any horizontal angle 30 degrees either side of a line parallel to the runway.



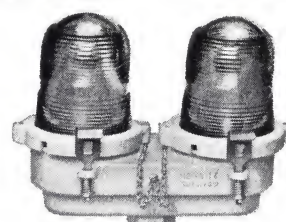
Cat. No.	Description	Price Each
7560	With all Clear Lens.....	.....
7561	With Clear and Yellow Lens.....	.....
7562	With all Green Lens.....	.....
7563	With all Red Lens.....	.....

Prices on request.

OBSTRUCTION LIGHTS—SINGLE AND DOUBLE UNITS



No. 6051



No. 6053

The Revere low cost obstruction lights have been designed to conform to C.A.A. requirements. Heavily constructed of cast aluminum and perform equally well as the more expensive type units.

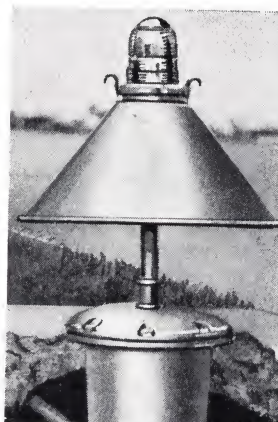
Without Relay

Cat. No.	Description	Price Each
6051	Single, with Med. Prefocus Socket	\$11.50
6053	Double, with Med. Prefocus Socket	23.00
6051A	Single, with Med. Screw Socket.....	13.00
6053A	Double, with Med. Screw Socket.....	26.00
4705	Red Lens Only.....	7.55
36-21	Medium Screw Socket Only.....	1.15
36-29	Medium Prefocus Socket Only.....	2.75

With Relay

6053R	Double, with Med. Prefocus Socket	41.00
6053AR	Double, with Med. Screw Socket....	38.00

REVERE ELEVATED RUNWAY AND STRIP MARKER LIGHTS



Elevated strip or runway marker lights are being used more and more because they are more readily seen. Being elevated, they offer more trouble-free service. They provide a better day marking system. They provide higher candlepower than the flush type marker with equal wattage.

Three types of mounting are available: The Central Column type, The Stake Mounting type, and the "ANC" Base Mounting type.

Elevated Runway Marker—Asymmetric Distribution

Lens	Application	"ANC" Base Mount- ed Unit	Column Mount- ed Unit	Stake Mount- ed Unit
Clear	Runway Marker	6032	6038	6044
Yellow	Runway Marker	6033	6039	6045
Clear	Runway Marker	6034	6040	6046
Yellow	Runway Marker	6035	6041	6047
Green	Range Marker	6036	6042	6048
Red	Obstruction Marker	6037	6043	6049
Blue	Taxiway Marker			

Obstruction and Boundary Light—Symmetrical Distribution

Lens	Type Marker	1" Pipe Mounted Without Cone	"ANC" Base Mounted With Cone	Column Mounted With Cone	Stake Mounted With Cone
Clear	Boundary	6050	6054	6058	6062
Red	Obstruction	6051	6055	6059	6063
Blue	Taxiway	6052	6056	6060	6064
Double					
Red	Obstruction	6053	6057	6061	6065

REVERE LIGHTING FOR NIGHT-TIME FLYING

FLUSH RUNWAY MARKER

"ANC" Base Mounted—AN-L-9a Specifications



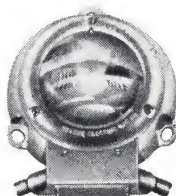
This Revere Runway Marker is constructed in accordance with aeronautical specification AN-L-9a and provides a rugged flush-mounted unit that will withstand the largest planes passing over it. Mounted in a deep or shallow ANC base casting along the edge of the runway, it provides an installation of heavy-duty units for airports which enjoy good landing conditions.

Lamps: Series—325 or 1020 lumen 6.6 amp. A-21 medium prefocus base marker lamp. Multiple—40 watt or 100 watt A-21 medium prefocus base marker lamp.

Description	Cat. No.
Top Assembly—Series Service—Asymmetrical Distribution—less Filter	7031
Top Assembly—Multiple Service—Asymmetrical Distribution—less Filter	7032
Deep Base Casting	7018
Shallow Base Casting	7019
Yellow Filter	7024
Green Filter	7025
Red Filter	7026
Blue Filter	7027

REVERE RUNWAY MARKER LIGHTS

Semi-flush runway marker, surface mounted. Developed to conform to the needs of Class I and Class II airports. A low surface mounted unit which can be used on paved runways. The unit will take a considerable blow from landing gear or tail wheel without damage to the light or the plane. The unit is provided with a heat-treated lens which produces two beams of light approximately 175° apart. Designed for use with 30 or 40 watt T-10 medium prefocus base airport marker lamp. A spherical Alzak aluminum reflector is used to redirect considerable light into the lens. Housing and lens ring, cast aluminum.



No. 4465

Lamp	Description	Cat. No.	Application
30 Watt	Clear Lens	4465	Runway Marker
45 Watt	Green Lens	4466	Range Marker
45 Watt	Blue Lens	4467	Taxiway Marker

CEILING PROJECTORS AND HEIGHT INDICATORS

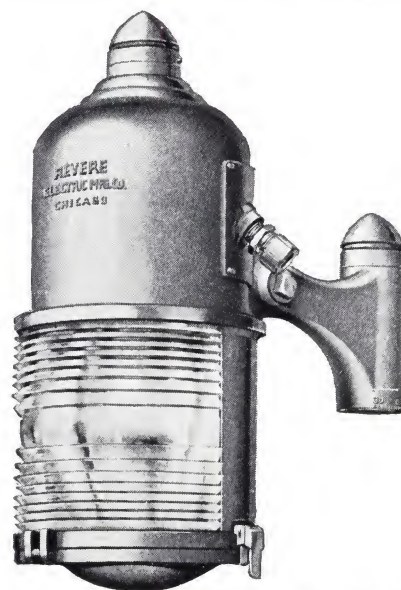
All airports should be equipped with a Revere 18-inch Ceiling Projector and Ceiling Height Indicator for the purpose of determining the "ceiling" or heights of the clouds above the ground. The Ceiling Projector is a high powered 18-inch searchlight, and the Height Indicator is a quadrant, graduated in feet.

Description	Cat. No.
Ceiling Projector with Transformer and 4" Slip Fitting Mounting	7281
Flat Base Mounting	7282
Ceiling Height Indicator	7283
4" Pipe Standard 3 Feet High for Mounting Ceiling Projector and Indicator	313

REVERE WIDE ANGLE FLOODLIGHTS

180° FRESNEL LENS AND MULTIPLE OR SERIES CIRCUITS

For Defense and Protective Lighting



Multiple-Type (Metal Hood) No. 2911-A

For use at Ordnance Plants, Bomber Plants, Arsenals, Industrial properties, Railroad and Ship Yards, Docks, Oil Refineries, Highway and Railroad Bridges, Reservoirs, Power Stations, Towers, etc.

This type of lighting is entirely to the advantage of the patrol guard because the intruder is in the beam of light in all directions of approach. The glare produced is such that the intruder cannot see the patrol guard or watchman directly underneath or back of the floodlight, yet adequate illumination is provided for the guard to move about the property safely and undetected.

The floodlights are ruggedly built, dust-tight and weatherproof. The Fresnel Lens is of heat-resisting glass and provides a horizontal spread of 180 degrees and a vertical spread of not more than 30 degrees. Mounting brackets have externally operated focusing mechanism.

The Series-Type is available with metal or porcelain hoods. The Metal Hood Series-Type has wet process receptacle and bushings.

With Metal Hood

Type of Mounting	*Multiple-Type Cat. No.	Price Each	†Series-Type Cat. No.	Price Each
Wood Pole or Wall	2907-A	\$46.00	2906-A	\$50.70
Cross Arm	2909-A	46.00	2908-A	50.70
Slips 1½" Pipe	2911-A	46.00	2910-A	50.70
Slips 2" Pipe	2913-A	46.00	2912-A	50.70
Clamps 1 to 2" Pipe	2915-A	46.00	2914-A	50.70

With Porcelain Hood

Type of Mounting	*Multiple-Type Cat. No.	Price Each	†Series-Type Dome-Type Cat. No.	Price Each
Wood Pole or Wall	2907-A	\$46.00	2986	\$49.90
Cross Arm	2909-A	46.00	2988	49.90
Slips 1½" Pipe	2911-A	46.00	2990	49.90
Slips 2" Pipe	2913-A	46.00	2992	49.90
Clamps 1 to 2" Pipe	2915-A	46.00	2994	49.90

*For use with 300-500 watt lamps.

†For use with 4000, 6000, 10,000 lumen lamps.

REVERE FRESNEL FLOODLIGHT

FOR PROTECTIVE AND WIDE ANGLE FLOODLIGHTING

This floodlight is equipped with a Fresnel heat-resisting glass lens and provides a beam of 180° on the horizontal, with a 10° to 20° vertical beam when a clear lamp is used. If a frosted lamp is used, a vertical beam of 60° may be obtained. It is available for fixed type mounting or for portable use as illustrated.

The fixed-type is recommended for use on pipe stands or poles in various mounting heights, depending on the application, also for wall mounting in vertical or horizontal position.

The portable-type is available with or without casters, also with or without a protective guard, as listed. It makes a desirable unit for aeroplane hangar interiors or aprons to supplement general overhead lighting.

These Fresnel Lens Floodlights lend themselves to many uses including sidewalks, yards, open areas, hangar aprons, signs, building fronts, bridge approaches, loading docks, rivers, dams, bridges, etc.



Cat. No.
2821
Height 16 1/4"
Width 8 1/4"



Cat. No. 2801
Height 13 1/4"
Width 8 1/4"

ADJUSTABLE FIXED-TYPE MOUNTING

For Use with 150-250-400 Watt Spotlight and Floodlight Service Lamp

Cat. No.	Description	Shpg. Wt. Lbs.	Price Each
2801	1/2-inch Fitter	22	\$35.40
2802	3/4-inch Fitter	22	37.00
2803	1 1/2-inch Pipe Slip Fitter	22	37.40
2804	Flat Base	22	36.90
2805	Clamp (1" to 2" Pipe)....	22	37.40

ADJUSTABLE FIXED-TYPE MOUNTING

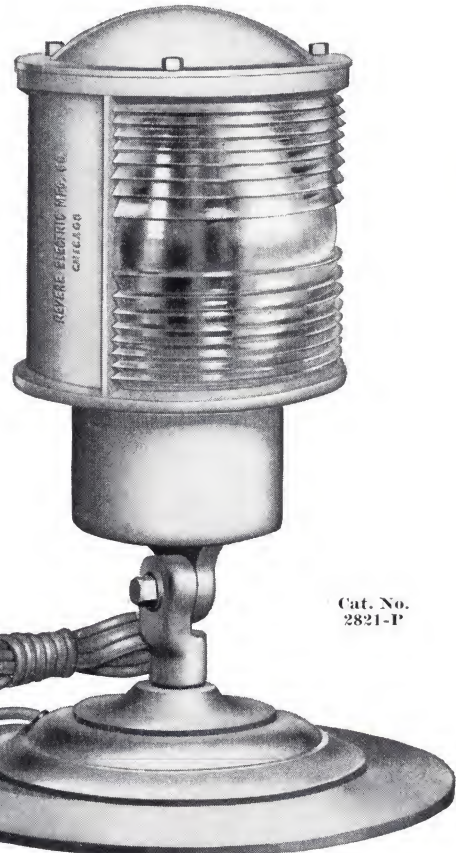
For Use with 200-300 Watt General Service Lamp

Cat. No.	Description	Shpg. Wt. Lbs.	Price Each
2821	1/2-inch Fitter	24	\$37.20
2822	3/4-inch Fitter	24	38.80
2823	1 1/2-inch Pipe Slip Fitter	24	39.20
2824	Flat Base	24	38.70
2825	Clamp (1" to 2" Pipe)....	24	39.20

PORTABLE TYPE

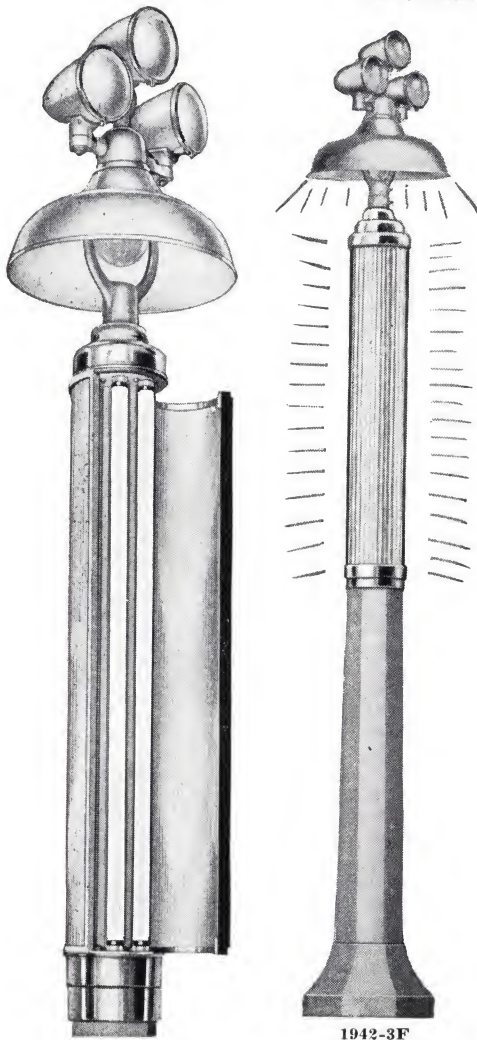
For Use with 200-300 Watt General Service Lamp

Cat. No.	Description	Shpg. Wt. Lbs.	Price Each
2821-P	Portable without Casters	40	\$46.00
2821-PC	Portable with Casters	42	48.50
2821-PG	Portable without Casters with Guard	45	47.50
2821-PCG	Portable with Casters and Guard	47	50.00



Cat. No.
2821-P

REVERE PYLON-LITE STANDARDS



1942-3F

This outstanding Revere unit offers many possibilities in lighting. Since its introduction, its usefulness has spread from Gas Station Lighting to Outdoor Theater Entrances, Park and Driveway Entrances, Airport Loading Area Lighting, Street and Highway Lighting, etc. The Standard Unit (No. 1942-3F) is 5 ft. high to luminaire. Luminaire is 4 ft. 10 in. high. Overall height to light center (if flood is used) is 10 ft. 5 in. high. To top of top floods — 11 ft. 10 in.

Rich lighting effects are obtained through the 6 instant start fluorescent lamps mounted in special sockets that do not need starters. A heavy steel channel serves as the structural support of the fixtures as well as an enclosure for ballasts and wiring. Lamps operate properly under any weather conditions. Lower hexagonal section is of steel with pedestal base surrounded by a tapered hexagonal housing. All Pylon-Lites are furnished complete with Lamps.

Description	CAT. NO.		
	Porcelain Area Light	Alzak Area Light	Price
Standard with Area Light.....	1942	1947	\$232.00
Standard with Area Light and one 3180 Top Flood.....	1942-F	1947-F	243.00
Standard with Area Light and two 3186 Top Floods.....	1942-2F	1947-2F	254.00
Standard with Area Light and three Top Floods.....	1942-3F	1947-3F	265.00
Standard with Area Light and Reel Well.....	1942-R	1947-R	299.50
Standard with Area Light, three Top Floods and Reel Well.....	1942-3FR	1947-3FR	332.50
Pylon-Lite for 2 in. Pipe Mounting with Area Light and three Top Floods.....	1955-3F	1956-3F	196.00
	Cat. No.		Price
Pylon-Lite and Standard (no provision for Top Flood).....	1948		\$216.00
Pylon-Lite and Standard (with provision for Top Flood).....	1949		217.00
Wall Mounting Pylon-Lite — 1 bracket.....	1957		160.00
Wall Mounting Pylon-Lite — 2 brackets.....	1958		172.00
Wall or Pole Mounting Half Pylon-Lite (4 lamps).....	1960		87.50
Pipe "Clamp Around" Type (2 halves back to back) — 8 lamps.....	1962		175.00

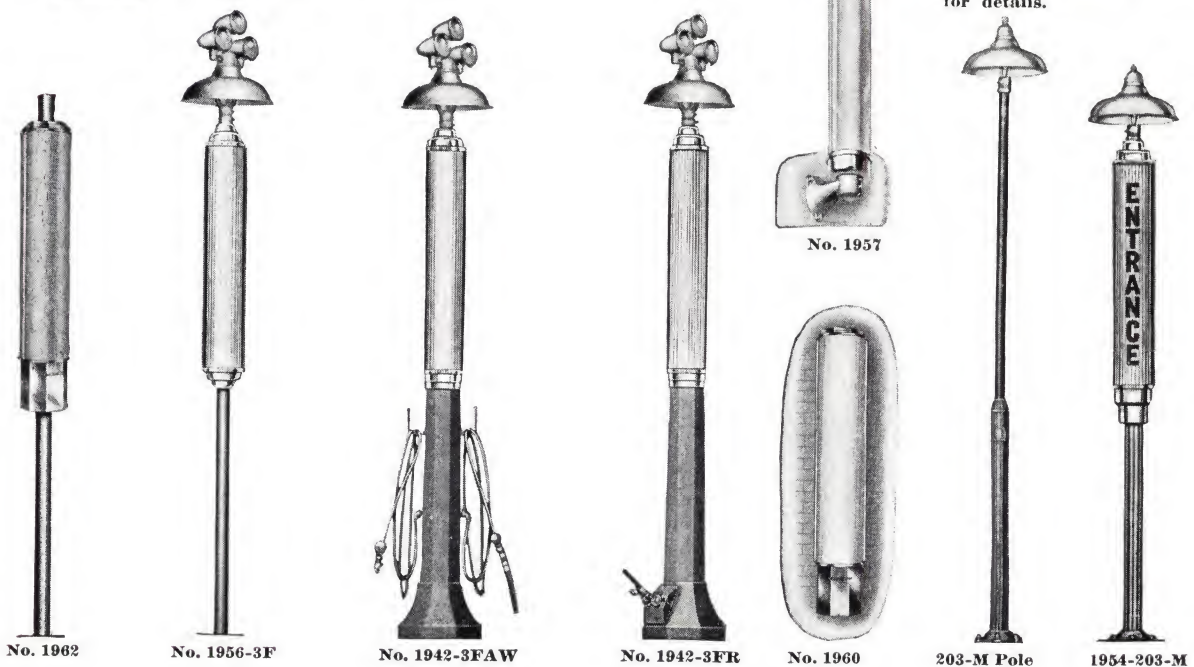
Underwriters Approved.

Note neat Revere construction. Glass enclosures are on hinged frames, easy to open and close.

GAS STATIONS CAN CONVERT OLD STANDARDS TO PYLON-LITES

Showing old Standards which can be cut off 2 inches above fluted reducer. Then a Pylon-Lite adapter slips over it to look like No. 1954.

Adapters are made for pipe sizes of 2, 2½, 3, 3½, 4, 4½ and 5 inches. Write for details.



No. 1962

No. 1956-3F

No. 1942-3FAW

No. 1942-3FR

No. 1960

203-M Pole

1954-203-M

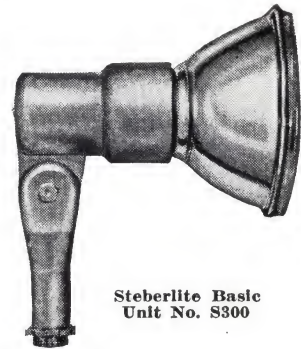
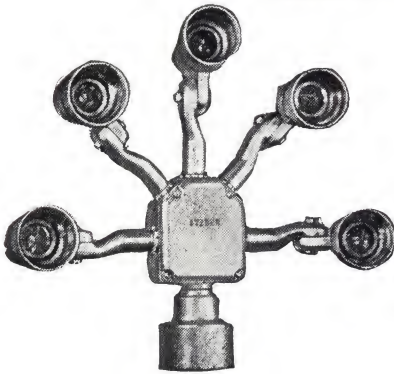
STEBERLITE BASIC UNITS AND ACCESSORIES

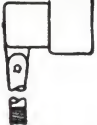











LAMP NOT INCLUDED

Listed below is a short line of versatile fittings in which the three basic units alone can handle nearly all problems of general or supplementary floodlighting. The smartly designed accessories add many more variations for complete floodlighting needs.

The Steberlite features: Long life; Enclosed wiring; Weatherproof construction; Compact size; Quick and easy hook-up; Minimum heat generation.

Shown at left is cluster of five Steberlites mounted to Adapter Box and Steber pole Slip Fitter.



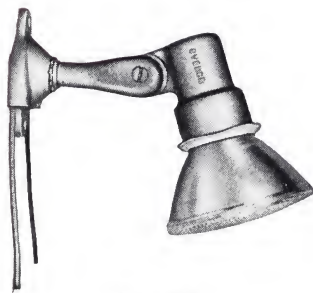
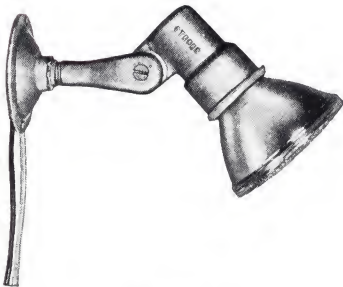
Cat. No.	Cat. No.	Description	Std. Pkg.	Wt. Lbs. Std. Pkg.	List Price
	S300	Lamp Holder, cast aluminum, completely wired. Mounting nipple threaded 1/2 inch with lock nut. Special silicone gasket gives complete weather protection with either PAR-38 or R-40 lamps.....	12	13 1/2	\$2.90
	S350	Mogul Base Lampholder. Cast aluminum, completely wired. Mounting nipple threaded 1/2 inch with locknut. Special Silicone rubber gasket gives complete weather protection for R-40 Mogul Base lamps.....	6	9	6.50
	S311	Adapter Fitting. Cast aluminum, with junction box cover. Five openings tapped 1/2-inch female and two 1/2-inch male plugs furnished to provide closures for unused openings.....	12	2 1/2	1.30
	S301	Adapter Box with cover, cast aluminum. Tapped 1/2 inch to mount up to five S300 units. Furnished with 3 threaded plug closures. Adapter Box tapped 1/2 inch female to mount on 1/2-inch conduit or Pole Fitter No. S302.....	6	10	3.50
	S302	Pole Slip Fitter, cast iron—fits either 1 1/2 or 2-inch pipe. Tapped 1/2 inch to accommodate S300 unit. All Pole Slip Fitters furnished with 1/2-inch running thread to take S301.....	6	7 1/2	1.90
	S303	4-inch Outlet Box Cover, cast iron. Top opening tapped 1/2 inch for S300 or 1/2-inch Conduit extension.....	12	7	.48
	C58	Combination Pole or wall mounting Flange for open wiring. Sturdy cast metal, heavily coated with a rust resisting finish. Insulated bushings to protect entrance leads. Threaded for 1/2 inch conduit and equipped with set screws.....	12	10	.55
	C5	Patented combination pole or wall mounting Flange. Junction box type. Sturdy casting with removable cover and gasket. 1/2-inch conduit entrance at bottom and furnished with two-hole bushing. Set screw for fixture alignment. Rust proof finish.....	12	5	1.20
	C8	1/2-inch Slip Flange to anchor conduit where connection to outlet box on inside wall is desired.....	12	2	.45
	S304	Housing with ring, spun aluminum. Threaded neck attaches to S300. Easy detachable ring holds Color Lens (U-45) and/or Baffle-Louver (S305).....	6	4	4.00
	S305	Baffle-Louver, drawn steel. Black Ultramel finish. High efficiency—adequate shielding. Fits S304 Housing.....	6	3 1/2	1.00
	U45	Color lens, heat resisting—available in four colors. Use suffix A, R, G, B to denote Amber, Red, Green or Blue. Fits S304 Housing.....	6	2	.70

STEBERLITES—FARM LIGHTING EQUIPMENT

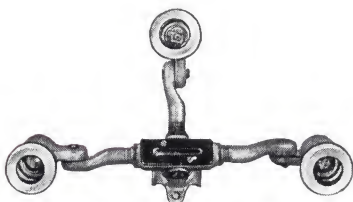
LAMP HOLDERS FOR SPOT AND FLOOD LIGHTING FARM AND HOME



No. S-300 Lampholder

No. S-312
Lampholder and Wall or Pole
Mounting FlangeNo. S-313
Lampholder and Mounting
Plate for 4-inch Outlet Box

No. S-320 Two Lamp Cluster



No. S-330 Three Lamp Cluster

Specifications

Steberlite line of cast aluminum lampholders for "Sealed Beam" reflector and projector type lamps for floodlighting yards, feed lots, corrals, driveways, croquet and tennis courts, patios or other play areas on farms, country estates and homes. In fact, Steberlites are the economical answer to outdoor lighting of every description. They are completely weatherproof, of durable cast aluminum with articulated joint permitting quick and easy angle adjustment to any desired range. Each Lampholder is equipped with a special silicone rubber gasket which guarantees a permanent seal between lamp and socket. In this listing we offer the S-300 Lampholder to be mounted singly, in pairs or in clusters of three lamps depending upon the area to be illuminated and the intensity of light desired. Each Lampholder is carefully wired at the factory, facilitating assembly and reducing installation costs.

No. S-330 is a three lamp cluster unit complete with Lampholders, adapter fitting and mounting bracket.

No. S-320 is a two lamp cluster to which an additional Lampholder may be added at any time to boost the volume of light output and coverage.

The versatility of Steberlites permits many combinations and arrangements which will answer any lighting problem. Other Steberlite fittings and accessories are available, including Color equipment, louvers, adapters for four or five lamps, pole mountings, flanges, etc.

Cat. No.	Description	Cart. Qty.	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
S-300	Lampholder, cast aluminum, completely wired. Mounting nipple threaded $\frac{1}{2}$ in. with lock nut. Special Silicone gasket gives complete weather protection with either PAR-38 or R-40 lamps.	1	12	13 $\frac{1}{2}$	\$2.90
S-312	S-300 Lampholder, completely wired, and wall or pole type cast mounting flange.	1	12	18	3.45
S-313	S-300 Lampholder, completely wired, and outlet box plate for mounting on 4-in. Outlet Box.	1	12	20	3.38
S-320	Two lamp cluster consisting of 2 S-300 Lampholders completely wired, Adapter Fittings, close nipple and cast mounting flange.	1	6	20	7.75
S-330	Three lamp cluster consisting of three S-300 Lampholders completely wired, Adapter Fitting, close nipple, and cast mounting flange.	1	6	22	10.65

Lamps not included.

STEBER YARDLIGHTS

No. HA-15 STURDILITE



For installation not requiring the junction box fitting supplied with the HA-14 Sturdilite. This unit has all the outstanding features of the HA-14 except that it is furnished with a heavy duty conventional mounting flange for open wiring. Insulating bushings to protect entrance leads and Vibresist gasket for longer lamp life.

Cat. No.	Reflector Diameter	Lamp Watts	Car-ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
HA-15	14	150	1	3	16	\$5.00

JACKSON YARDLIGHTS



Wired complete. Sturdily constructed in one piece of heavy gauge steel and finished, white inside, green outside, with three coats of Vitreous Porcelain Enamel. Jackson Yardlights are designed and constructed to withstand wind and weather conditions.

Listed by Underwriters' Laboratories, Inc.

Cat. No.	Reflector Diameter Inches	Overall Length Inches	Units Per Carton	Std. Pkg.	Price Each
8972	12	26	5	25	\$4.30
8974	14	27	5	25	4.60
8976	16	28	1	25	5.30

HOFFMAN HOLDA-LITE



Holds the lamp bulb and the socket securely in the reflector. Prevents lamp breakage.

Holda-lite is made of specially formed clips to fit over the rim of all reflectors. The tension springs are made of the finest steel wire, and will last indefinitely under all weather conditions. The clips and the bulb holder are formed from hot rolled steel, and are cadmium plated to prevent corrosion and rust. Packaged 1 dozen to the box. Shipping weight, per box, 2 lbs.

Price, Model No. 11 Holda-lite.....per doz. \$6.50
2 dozen or over, per doz. \$6.00.

KILLARK THREADED GOOSENECK



30 inches long. Flange extra.

Cat. No.	Conduit Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
GNB-1	1/2	25	63	\$0.95
GNB-2	3/4	25	95	1.90

FLANGE FOR GOOSENECK

Cat. No.	Conduit Size	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
GNF-1	1/2	25	15	\$0.35
GNF-2	3/4	25	15	.50



MITCHELL SOFT LITE TV LAMP



Especially designed for use on top of the television set to softly illuminate area surrounding set. Eliminates disturbing sharp contrast of dark area in room and the distracting glare, providing a new degree of comfort for television viewing especially over long periods.

This Multi-Purpose Lamp has many uses—singly or in pairs on the mantel shelf; indirect light for the bedroom, den or sickroom; night light for hallway, nursery, etc.

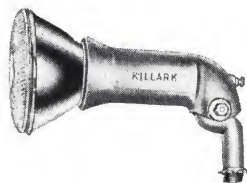
Artistically styled of heavy-gauge solid brass. Satin bronze or Colonial brass finish which will not reflect outside lighting. Base has weighted bottom, covered with felt discs to prevent scratching furniture. Uses incandescent bulb from 25 to 100 watts. Push-switch in base. Height 10 inches—reflector bowl at top 5 inches. Wired with 6-ft. cord and plug. Choice of two finishes — satin bronze or Colonial brass. Packed 12 to a carton.

Price, Model 960 Satin Bronze, or Model 961 Colonial Brass finish.....each \$5.75

WE APPRECIATE AND
SOLICIT YOUR INQUIRIES
REGARDING ELECTRICAL
MERCHANDISE

KILLARK "VERSATILE" SEALED BEAM FIXTURES

Non-Rusting Aluminum—Lasts a Lifetime

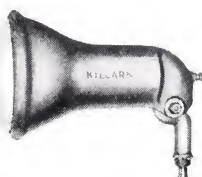
No. SLH LAMP HOLDER

Lamp holder, medium base, furnished with 20-inch leads. Has outstanding reversible swivel feature. Takes 150-watt PAR-38 spot and flood lamps and 300-watt R-40 floodlight or equivalent. Lamp not included. Weight, 1 1/4 lbs. each.

Price, No. SLH Lamp Holder.....each

No. SLHM LAMP HOLDER

Lamp holder, mogul base. Will take R-40 300-500 watt floodlight. Wiring completely enclosed with 20-inch leads. 1/2 inch thread with locknut, adjustable socket, has 3/4 inch travel inside holder controlled by single exposed adjustment screw. Has outstanding reversible swivel feature. Lamp not included. Weight, 2 3/4 lbs.



Price, No. SLHM Lamp Holder.....each

No. SY WIRING TROUGH

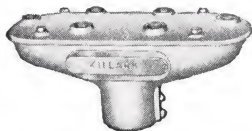
Wiring trough — complete with cover. Tapped 1/2-inch to mount a maximum of

5 SLH or SLHM units. Furnished with 2 close-up plugs. (CUP-1.) SY furnished with 1/2-inch close-nipple to mount on SJ-1 or SJP-1. Two openings provided in bottom make splicing simple. Weight, 2 1/4 lbs.

Price, No. SY Wiring Trough.....each

No. SYL WIRING TROUGH

Trough — large size. To take a maximum of 6 SLH or SLHM holders. Furnished with 2 1/2-inch close-up plugs. Cover and gasket in front make wiring and splicing easy. Two inch pipe slip base with three point balance. Weight, 3 3/4 lbs.



Price, No. SYL Wiring Trough.....each

No. SJ-1 ACORN FITTING

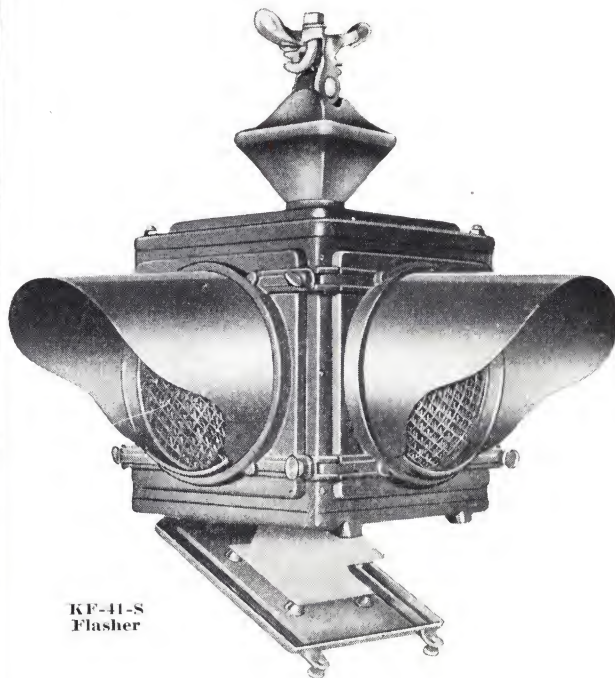
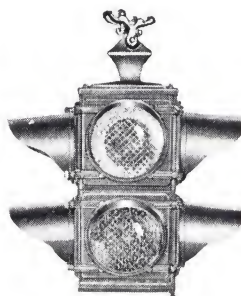
Acorn fitting. To enable use of extra cluster lights with present lighting set-up. Furnished with 1/2-inch close-nipple and three 1/2-in. close-up plugs. Weight, 1 1/4 lb.

Price, No. SJ-1 Acorn Fitting.....each

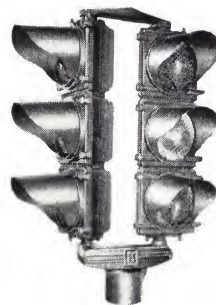
No. SYHE EXTENSION

Extension consists of one 1/2-inch x 6-inch nipple and one 1/2-inch coupling. For use on SY and SYL troughs. Weight, 1/2 lb.

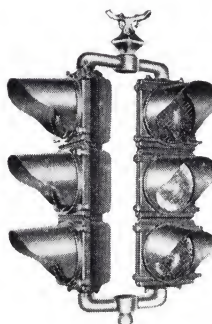
Price, No. SYHE Extension.....each

KILLARK TRAFFIC SIGNALSKF-41-S
Flasher

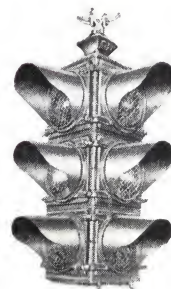
KF-42-S



KA-23-PM

KA-13-PM
Back View

KA-23-S



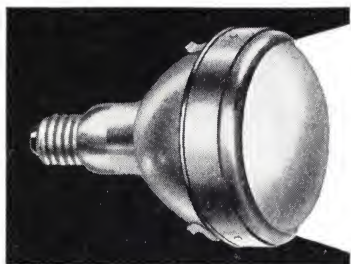
KF-43-S

Special Bulletins on Killark Traffic Signals and Controls are available and will be furnished upon request.

**MITCHELL COLOR LENS
FOR PAR-38 PROJECTOR AND R-40
REFLECTOR LAMPS**

Color filter attachments for 150-watt, PAR-38 and R-40 lamps. These filters can be instantly "clipped" on the bulb, and convert the light beam to any desired color.

NO. 17 COLOR KIT FOR R-40 REFLECTOR BULB



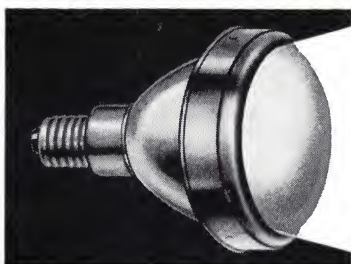
COLOR KIT consists of:

- 1 No. 17 Lens Holder
- 1 Green Color Lens
- 1 Blue Color Lens
- 1 Amber Color Lens
- 1 Red Color Lens

Shipping weight 3 lbs. per kit. Packed one kit to a carton.

Price, No. 17 Color Kit.....per Kit **\$2.25**

**NO. 18 COLOR KIT FOR PAR-38
PROJECTOR BULB**



COLOR KIT consists of:

- 1 No. 18 Lens Holder
- 1 Green Color Lens
- 1 Blue Color Lens
- 1 Amber color lens
- 1 Red Color Lens

Shipping weight 3 lbs. per kit. Packed one kit to a carton.

Price, No. 18 Color Kit.....per Kit **\$2.25**

Color lenses in Kits 17 and 18 are of processed glass with heat-resisting qualities, but are recommended for indoor use only. For outdoor use, refer to Color Kit No. 19.

**Separate Prices on Holders and Lenses
Used in No. 17 and No. 18 Color Kits**

No. 17-H Holder only for R-40 Lampseach **\$1.00**
No. 18-H Holder only for PAR-38 Lamp each **1.00**

Color Lenses, interchangeable in No. 17-H and No. 18-H Holders — Green, Blue, Amber, Red (specify color). Price, No. 23, **\$0.45** each.

**MITCHELL SPOTRAY BED LAMPS
"SPOTRAY" DELUXE BED LAMP**



This highly efficient bed lamp throws a concentrated beam of light upon the page for easy reading. Uses a 25 watt bulb, but the specially designed lens produces 100 watt efficiency. Lamp is mounted on heavy, smooth- action ball swivel that turns in any desired direction at the touch of a finger. Has "on-off" switch fitted into clamp body. Felt-lined mar-proof clamp. Metalescent bronze baked enamel finish. Complete with cord and plug.

Individually packed, 12 to master carton; shipping weight, 36 lbs.

Price, No. 1400 "Spotray" DeLuxe Bed Lampeach **\$5.95**

"SPOTRAY JR." BED LAMP

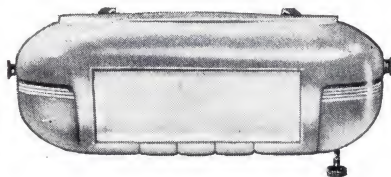


Clamps on the back of any bed. Felt lining in clamp prevents marring. Fully adjustable by means of a super-smooth ball swivel. Powerful convex lens produces maximum efficiency from standard 25 or 40 watt bulb. Confines beam of soft restful light within a small area. Equipped with "push" type switch, and approved cord and plug.

Metalescent bronze baked enamel finish. Packed 1 to a carton; 12 to shipping case. Shipping weight, 3 pounds each.

Price, No. 1241 "Spotray Jr." Bed Lamp, ea. **\$3.45**

MITCHELL BED LAMPS LUXURAY BED LAMP



Luxuray, the better light—better sight bed lamp. Gives shielded, directed light through the new "Plastacele" diffuser which screens out raw light and permits only glareless, conditioned light to come through. Luxuray casts its light over the reader's head directly on the reading page.

Easy to Adjust. Rubber-covered clamps allow simple adjustment to any bed without marring the finish. Clamps are flexible and permit bending to make fastening secure.

Easy to Operate. The light switch is within easy reach of the user.

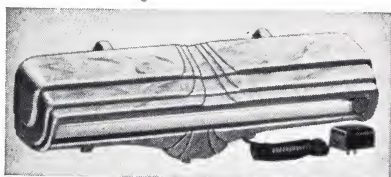
Equipped with 6-foot Underwriters' Approved cord and plug.

Available in a choice of a deep-tone Walnut finish, and soft Ivory finish.

Packed one to a carton. One dozen of one finish to shipping container. Shipping weight, 24 pounds.

Price, Model No. 1245-W Walnut Finish.....\$2.50
Price, Model No. 1245-I Ivory Finish 2.50

No. 2056 "PLASTI-LITE" FLUORESCENT BED LAMP



Here is a new fluorescent bed lamp offering more light (and more scientifically directed light) than any bed lamp on the market. The angle of light is so directed that you can read with utmost comfort in reclining position, with absolutely no glare or reflection from reading page.

Amazingly cool and comfortable — a peak in fluorescent performance. "Plasti-Lite" comes in moulded plastic—Onyx Ivory.

"Plasti-Lite" uses one 8-watt, 12-inch, T5 fluorescent lamp bulb. Has standard approved sockets. Easy to operate switch. Approved 9-ft. rubber cord, with new type "plug-in" ballast. No hum. Rubber covered clamps and bumpers to fit securely any type bed and prevent marring surface. Dimensions: 12¾ inches long, 3⅝ inches wide, 3 inches high. Individually packed, shipping weight 2½ lbs. Operates on 110-125 volts, 60-cycle, A.C.

Cat. No.	Description	Price Each
2056	"Plasti-lite" Bed Lamp with Bulb, Onyx Ivory finish.....	\$7.95

EAGLE LAMPS No. 300 BAKELITE BED LAMP



A scientifically constructed Bed Lamp. The outstanding feature of this Lamp is the ease with which the Shade can be removed.

Ordinary Lamps of this type have to be disconnected and removed from the Bed for washing. This lamp eliminates all this as the Shade slides into tracks on back plate, and to clean remove the cushioning rubber bands first and slide the Shade off the plate. Underwriters approved. Pull chain socket, 6 ft. rubber zip cord and flat cap.

Cat. No.	Finish	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
300GW	Grained Walnut	1	24	39	\$200.00
300	Pastel Colors	1	24	39	200.00

BAKELITE BED LAMP DISPLAY No. D-300



A lithographed display, colorful and attractive, measuring 20½ inches long and 19 inches wide, with an easel support. Ideal for counter and window display with provisions for illuminating one, or all, Lamps.

This display is furnished complete with five Lamps attached, in standard assortment only, one of each color. Costs of Lamps remain the same.

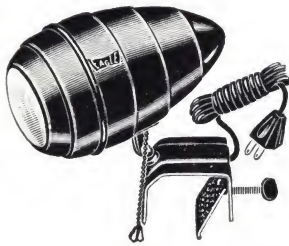
Packed one display to a carton.

Finishes: Grained Walnut, Ivory, Pastel Green, Pastel Rose, Pastel Blue. Packed one display to a carton. Standard package, 5.

Cat. No.	Description	Wt. Lbs. Std. Pkg.	Price Per 100
D-300	Bakelite Bed Lamp Display	42	\$1040.00

EAGLE LAMPS

No. 575 BAKELITE NITE-BEAM BED LAMPS



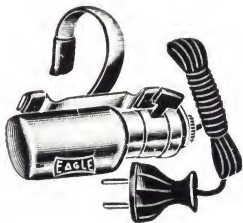
A bakelite Bed Lamp that is durable and sanitary, in five attractive colors. Truly, a distinctive Eagle design.

Consists of a two-piece bakelite reflector, scientifically attached heavy glass magnifying lens to intensify the light; especially designed adjusting joint that permits light to be focussed to any position; wiring concealed through clamp and joint; heavy stamped clamp with a maximum jaw spread of 2½ inches; felt lined to prevent marring; large thumb screw for rigid attachment.

Underwriters approved pull chain socket, 6 ft. of rubber zip cord and flat cap. Pastel colors.

Cat. No.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
575GW	1	12	24	\$250.00
575	1	12	24	280.00

SEWING MACHINE LAMP

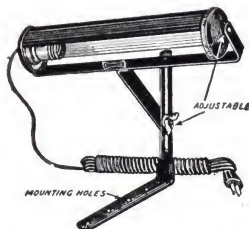


Made especially for sewing machines. Shade adjustable and shields the eyes from glare. Can be used as bed light. Nickel plated, 6 ft. of approved Zip cord and flat cap. Without bulb.

Cat. No.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
390	1	24	18	\$240.00

PICTURE LAMP

Ideal for pictures, paintings and for illuminating permanent wall signs. Adjustable in three position as shown in illustration. Has a horizontal range of 3½ inches and vertical range of 6 inches. Mounting bracket is 5 inches long and contains 4 holes. Adjustable shade is 8 inches long and 2 inches in diameter. Equipped with keyless socket, 8 ft. of approved cord, and flat cap. Finishes: Bronze, brush brass.



Cat. No.	Description	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
388	Picture Lamp....	1	12	7½	\$220.00

EAGLE LAMPS

READ-O-LITE, JR.



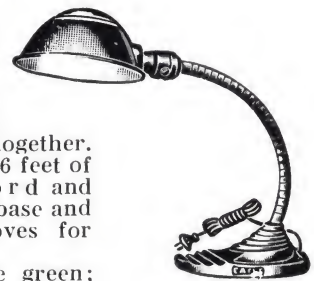
A very useful light for reading, book light and many other uses in the home. Equipped with 6 feet approved cord and flat cap. Comes in bronze finish only.

Cat. No.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
398	1	24	18	\$180.00

UTILITY DESK LAMP

Standard flexible reading lamp. 12-inch gooseneck, heavy cast iron base, large reflector and turn knob socket. All points are permanently riveted together. A fine full sized lamp. 6 feet of approved rubber cord and handle cap. New style base and pencil and side grooves for pins and clips.

Finishes: Antique green; bronze.



Cat. No.	Description	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
395	Utility Desk Lamp	1	20	72	\$230.00

FLEXIBLE ARM CLAMP LAMP



A very useful lamp which can be clamped in places where a standing lamp has no room, such as — work benches, drafting board, test boards, machines, bridge tables, etc. Excellent finish, 12-inch flexible arm wired with 6 ft. approved rubber zip cord and flat cap and No. 945 automatic push socket. Clamp opens to 2 inches and has screw holes for permanent fastening. Heavy wire screw provided.

Finishes: Green, bronze.

Cat. No.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100
399	1	20	50	\$260.00

YOUR REQUIREMENTS ALWAYS
RECEIVE OUR CAREFUL
ATTENTION

PAULDING KAOLITE FIXTURES

ONE-PIECE WALL BRACKETS

Pull Chain: 250 Watts, 250 Volts
Keyless: 660 Watts, 250 Volts
Outlet: 15 Amp. 125 V., 10 Amp. 250 V.

No. 1770 ONE-PIECE WALL BRACKET



No. 1770

Completely wired. With mounting straps. For 3¼-inch outlet box and Gem X box. Base, 6 x 3½ inches.

No.	Each
1770 Pull Chain with Convenience Outlet....	\$2.15
1771 Keyless with Convenience Outlet....	2.00
1772 Pull Chain No Outlet	1.85
1773 Keyless No Outlet....	1.70
Carton, 1; Std. Pkg., 10; Pkg. Wt., 16 lbs.	
770 Pull Chain Replacement Socket .....	.54

No. 1760 ONE-PIECE WALL BRACKET

Completely wired. With mounting straps. For 3¼-inch outlet box and Gem X box. Base, 6 x 3½ inches.

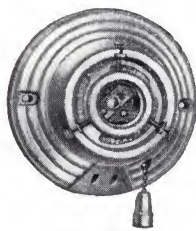
No.	Each
1760 Pull Chain with Convenience Outlet....	\$2.15
1761 Keyless with Convenience Outlet....	2.00
1762 Pull Chain No Outlet	1.85
1763 Keyless No Outlet....	1.70
Carton, 1; Std. Pkg., 10; Pkg. Wt., 16 lbs.	
770 Pull Chain Replacement Socket .....	.54



No. 1760

No. 1750 ONE-PIECE WALL BRACKET

With 2¼-inch fitter. Completely wired. With mounting strap. For 3¼ and 4-inch outlet box, and Gem X box. Base 4½ inches.



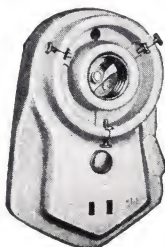
No. 1750

No.	Each
1750 Pull Chain with Convenience Outlet	\$2.15
1751 Keyless with Convenience Outlet	2.00
1752 Pull Chain, No Outlet	1.85
1753 Keyless No Outlet	1.70
Carton, 1; Std. Pkg., 10; Pkg. Wt., 15 lbs.	
750 Pull Chain Replacement Socket .....	.54

No. 1730 ONE-PIECE WALL BRACKET

With 2¼-inch fitter. Completely wired. With mounting strap. For 3¼-inch outlet box and Gem X box. Base, 6¼ x 4½ inches.

No.	Each
1730 Pull Chain with Convenience Outlet....	\$2.15
1731 Keyless with Convenience Outlet....	2.00
1732 Pull chain No Outlet	1.85
1733 Keyless No Outlet....	1.70
Carton, 1; Std. Pkg., 10; Pkg. Wt., 17 lbs.	
730 Pull Chain Replacement Socket .....	.54



No. 1730

PAULDING KAOLITE FIXTURES

Pull Chain: 250 Watts, 250 Volts
Keyless: 660 Watts, 250 Volts
Convenience Outlet: 15 Amp. 125 V., 10 Amp. 250 V.

No. 1780 ONE-PIECE WALL BRACKET

With 3¼-inch fitter. Base 5¼ inches. Concealed mounting screws. Completely wired. With mounting strap. For 3¼ and 4-inch outlet box and Gem X box.



No. 1780

No.	Each
1780 Pull Chain with Convenience Outlet	\$2.15
1781 Keyless with Convenience Outlet....	2.00
1782 Pull Chain No Outlet	1.85
1783 Keyless No Outlet....	1.70
Carton, 1; Std. Pkg., 10; Pkg. Wt., 23 lbs.	
780 Pull Chain Replacement socket .....	.54

No. 1720 ONE-PIECE WALL BRACKET

Completely wired. With mounting straps. For 3¼-inch outlet box and Gem X box. Base 6½x4 inches.

No.	Each
1720 Pull Chain with Convenience Outlet	\$2.15
1721 Keyless with Convenience Outlet....	2.00
1722 Pull Chain No Outlet	1.85
1723 Keyless No Outlet....	1.70
Carton, 1; Std. Pkg., 10; Pkg. Wt., 15 lbs.	
770 Pull Chain Replacement socket .....	.54

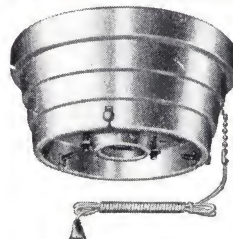


No. 1720

No. 1672 CEILING UNIT

250 Watts, 250 Volts

Completely wired. With mounting straps for 3¼ and 4-inch outlet boxes.



No. 1672

With 4-inch Fitter
Base Dia. 6½ Inches

No.	Each
1672 Pull Chain	\$2.85
Carton, 1; Std. Pkg., 10; Pkg. Wt., 23 lbs.	
672 Pull Chain Replacement socket .....	.54

No. 1601B 2-PIECE CEILING UNIT

Pull Chain 250 Watts, 250 V.; Keyless 660 Watts, 250 V.

Base diameter 4¼ inches.

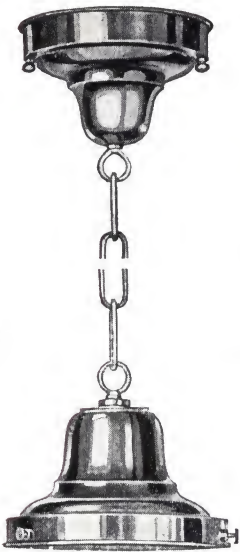
With mounting straps. For 3¼ and 4-inch outlet boxes.

No.	Each
1601B Pull Chain Socket	\$1.65
1606B Keyless Socket	1.50
Carton, 1; Std. Pkg., 10; Pkg. Wt., 17 lbs.	



No. 1601B

VIRDEN LIGHTING FIXTURES



No. V-46 — 6 inch
No. V-45 — 4 inch



No. V-34—4 inch
No. V-36—6 inch

Cat. No.	Fitter Inches	Length Overall	Socket	Finish	Price Each
V-45	4	30	Med.	St. Bronze	\$2.70
V-45	4	30	Med.	Chromium	3.95
V-46	6	30	Med.	St. Bronze	2.75
V-46	6	30	Mog.	Chromium	4.00
V-46M	6	30	Mog.	St. Bronze	3.40
V-46M	6	30	Mog.	Chromium	4.65

CEILING TYPE

Cat. No.	Fitter Inches	Socket	Finish	Price Each
V-34	4	Medium	St. Bronze	\$1.85
V-34	4	Medium	Chromium	2.15
V-36	6	Medium	St. Bronze	1.90
V-36	6	Medium	Chromium	2.25
V-36M	6	Mogul	St. Bronze	2.65
V-36M	6	Mogul	Chromium	3.00

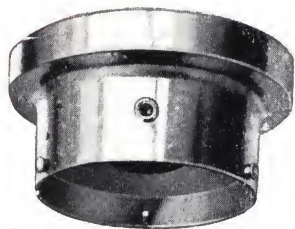
VIRDEN HOLDERS AND BATH BRACKETS

No. V-60-E

Streamline Kitchen Holder

Diameter canopy 5½ in.; fitter 4 in. Bare with strap. Individually packed, 48 to case.

Finish	Price
White Enamel	.....\$0.55
Chromium	..... .85

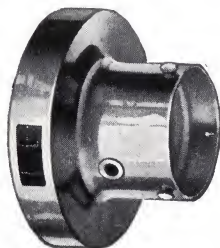


No. V-62-E-CO

Streamline Bath Bracket with Convenience Outlet

2¼ in. fitter. Diameter of canopy 4½ in. Bare with convenience outlet and strap. Individually packed, 60 to case.

Finish	Price
White Enamel	.....\$0.77
Chromium	..... 1.00



INLAND GLASSWARE

LA SALLE NO. "90" LINE—SNOW WHITE GLASS



Cat. No.	Glass Size			Lamp Size Watts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
	Diam. In.	Depth In.	Fitter In.				
9008	6	8¾	4	60	4	22	\$1.83
9010	12	9¾	6	200	2	15	5.28
9016	10	16¾	6	300	1	10	7.41
9020	12	20	6 or 8	500	1	14	22.92

LA SALLE No. "90" LINE—D9

With Black Decoration

Cat. No.	Glass Size			Lamp Size Watts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
	Diam. In.	Depth In.	Fitter In.				
9008	6	8¾	4	60	4	22	\$3.12
9010	12	9¾	6	200	2	15	6.99
9016	10	16¾	6	300	1	10	9.51
9020	12	20	6 or 8	500	1	14	25.23

NO. "700" LINE SPECIAL



SNOW WHITE

Cat. No.	Glass Size			Lamp Size Watts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
	Diam. In.	Depth In.	Fitter In.				
708	8	6¼	4	60	12	19	\$1.74
709	9	6	4	100	12	23	1.95
710	10	6½	4	100	12	25	2.25
712*	12	7¼	4 or 6	150	6	20	2.88
714	14	8½	6	200	2	12	3.90
716	16	9¼	6	300	1	8	5.04
718*	18	10¾	6 or 8	500	1	10	7.80

*Specify size of fitter when ordering.

INLAND GLASSWARE

I.E.S. SHADES — SNOW WHITE



No. A-54



No. A-57

Cat. No.	Size Inches	Std. Pkg. Quantity	Shipping Wt. Lbs.	Price Each
A-52	2 1/4 x 5 1/8	12	20	\$1.17
A-54	2 1/4 x 8	12	21	1.32
A-55	2 5/8 x 10	12	23	1.95
A-56	2 5/8 x 9 3/8	12	23	1.89
B-56	2 5/8 x 9 3/8	12	23	1.89
A-57	2 3/4 x 10	12	24	1.95
B-57	2 3/4 x 10	12	24	1.95
A-58	2 1/4 x 10	12	24	1.95

HALF SHADE—Snow White



Size 2 1/4 x 6 Inches

Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
5022	36	30	\$1.29

UNION HAYMOW LIGHTING FIXTURE

Glass globe is standard wide mouth quart canning jar. Recommended for use in such hazardous locations as barns, chicken houses, grain warehouses, etc., where the 1947 National Electrical Code does not require special fittings covered by Article 500.

The No. 159 Haymow Lighting Fixture is designed for those dusty and mildly corrosive locations where the cost of the conventional dust and vapor proof fixtures exclude their use.

Socket, cover and globe holder are made of heavy sections of molded Bakelite. Will resist corrosive effects of moisture as well as mild acid and alkaline atmospheres, such as exist in most farm outbuildings.

The entire fixture is insulated. Danger of exposed metal parts becoming energized is eliminated. Mounts on standard 3 1/4 and 4-inch outlet boxes. For normal use—100 watt lamp; where lit continuously—60 watt lamp.



No. 159

Cat. No.	Description	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
159	Fixture and Globe	1	25	46	\$114.45
159-G	Globe only	12	12	15	23.10

No. 159, listed by Underwriters' Laboratories, Inc.

UNION PORCH LIGHT FIXTURE



Dust and vapor proof. Eliminates the unsightly collection of dust and charred insects that necessitate frequent cleaning of the conventional porch light.

This vapor tight fixture protects lamp shell and socket interior. The corrosion resistance of the black bakelite cover and adapter ring protects the fixture from the most severe atmospheric conditions indefinitely. The attractive pebbled glass globe assures light diffusion. Threaded top makes installation easy. Takes 100-watt lamp. For 3 1/4 or 4-inch box.

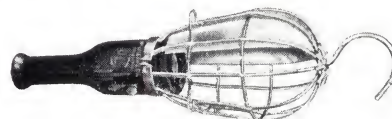
Cat. No.	Description	Car-ton	Std. Pkg.	Wt. Lbs.	Price Per 100
169	Fixture and Globe	1	12	23	\$140.70
169-G	Globe only	12	12	12	39.90

McGILL PORTABLE LAMP GUARDS

Approved by Underwriters' Laboratories, Inc.

No. 7000 SERIES PORTABLE LAMP GUARDS

Rubber Handle—Closed End Cage



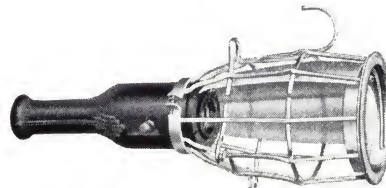
No. 7000-SR

Black rubber handle equipped with 660 watt, 250 volt socket. Electrically welded steel wire cage with No-Rol feature, heavily zinc plated. Exceptionally sturdy and serviceable for general portable lighting applications.

Cat. No.	Description	Wt. Oz. Each	Price Each
7000SR	No. 7000 with Reflector and Levolver Switch	22	3.70

No. 7100LR SERIES PORTABLE LAMP GUARDS

Rubber Handle—Concentrating Lens and Reflector Assembly

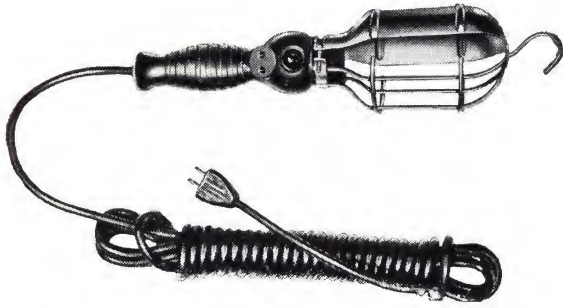


No. 71001-SLR

These portable lamp guards have the 7000 series handle and socket. No-Rol steel wire cages are equipped with concentrating end lens and reflector assembly that amplifies light up to 6 1/2 times at two feet. Ideal for intensified lighting.

Cat. No.	Description	Wt. Oz. Each	Price Each
7001LR	Lamp size max. 100-w, Keyless Socket	24	\$5.10
7001SLR	No. 7001LR with Levolver Switch	24	5.40

STANDARD PORTABLE TROUBLE LIGHT



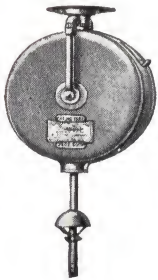
All rubber portable trouble light with patented heavy duty shock-proof handle, perfected push-through safety switch, patented all steel lamp guard with non-glare reflector, Underwriter approved, extra flexible rubber covered wire with molded machine type plug and extra outlet for tool tap.

Price, No. 103 All Rubber Portable Trouble Light, 25'.....each \$3.02
No. 204, 50'.....each 4.32

APPLETON PORTABLE REELITES

Rating—250 Volts, 660 Watts

PORTABLE TYPE REELITES



An automatic reeling device for extension light cords. The light is always available within arm's reach and no time is lost in untangling cords or plugging in for new extensions. Each reel has a ratchet stop which works exactly like a window shade. Furnished standard with cover plate which fits over all 3 3/4 or 4-inch octagonal outlet boxes. Finish is light grey enamel. Furnished with No. 16 gauge, 2-conductor cord.

Cat. No.	Description	Wt. Lbs.		Price Each
		†Wt. Lbs.	Per Doz.	
With 12 Feet of Cord—5½-inch Reelite				
1532	Without Wiring Device....	2	64	•
1533	Brass Shell Key Socket....	2	64	•
1534	Composition Key Socket....	2	64	•
With 25 Feet of Cord—7¼-inch Reelite				
1524	Without Wiring Device....	1½	92	•
1525	Brass Shell Key Socket (Less Guard)	1½	92	•
1526	Composition Key Socket (Less Guard)	1½	92	•
1530	Grounding Type without Wiring Devices†	1½	95	•
With 40 Feet of Cord—10-inch Reelite				
1519	Without Wiring Device....	1	170	•
With 50 Feet of Cord—10-inch Reelite				
1520	Without Wiring Device....	1	170	•

†Furnished with No. 16-3 conductor cord, two of which are connected to brushes and third grounded to frame.

‡Lifting Capacity. For devices attached to cord of Reelites listed above.

PLAIN BRACKET STRAP

Without French hook. Very handy for miscellaneous wiring on brackets, etc. Made 1/8-inch thread only.

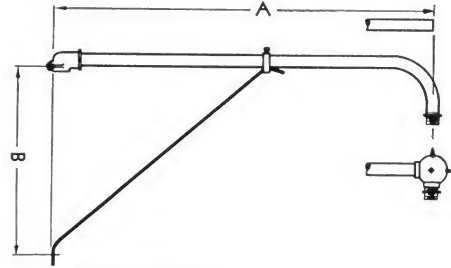
Price, No. F-12 Bracket Strap.....Per 100 \$3.50



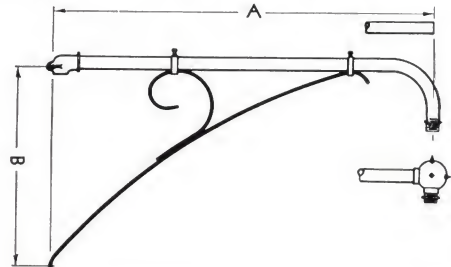
JOSLYN STREET LIGHTING EQUIPMENT PIPE BRACKETS

Hot Dipped Galvanized

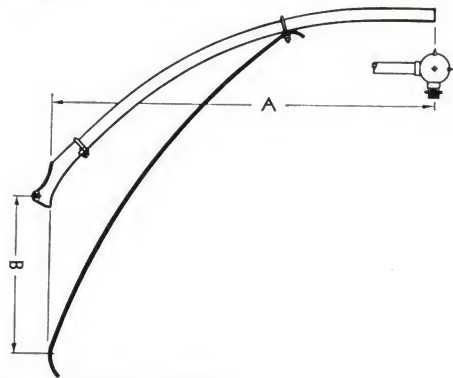
Joslyn Pipe Brackets are made of standard steel pipe. The 1 1/4-inch brackets can be furnished with threaded or clamp type malleable iron pole plates. The scroll is attached to the pipe by malleable iron clamping collars, which permit the bracket to be properly aligned after mounting on the pole. These brackets can be furnished in lengths of 4, 6 or 8 feet.



Cat. No.	Dimens., Inches		Type End
	"A"	"B"	
J80020X4	48	19	Straight (not threaded)
J80022X4	48	19	1 1/4-inch Spiked Ell.....
J80031X4	48	19	90° Bend



Cat. No.	Dimens., Inches		Type End
	"A"	"B"	
J80070X4	48	29	Straight (not threaded)
J80070X6	72	29	Straight (not threaded)
J80070X8	96	29	Straight (not threaded)
J80082X4	48	29	1 1/4-inch Spiked Ell
J80082X6	72	29	1 1/4-inch Spiked Ell
J80082X8	96	29	1 1/4-inch Spiked Ell
J80091X4	48	29	90° Bend
J80091X6	72	29	90° Bend
J80091X8	96	29	90° Bend



Cat. No.	Dimens., Inches		Type End
	"A"	"B"	
J80100-K4	48	20	Straight (not threaded)
J80100-K6	72	25	Straight (not threaded)
J80100-K8	96	30	Straight (not threaded)
J80102-K4	48	20	1 1/4-inch Spiked Ell.....
J80102-K6	72	25	1 1/4-inch Spiked Ell.....
J80102-K8	96	30	1 1/4-inch Spiked Ell.....

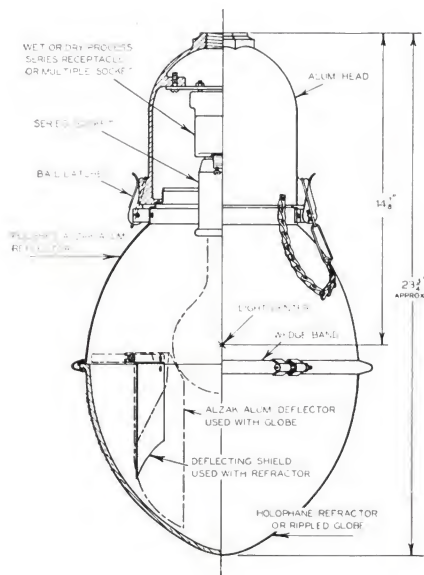
JOSLYN STREET LIGHTING EQUIPMENT

Type 50 Wedge Band Luminaires

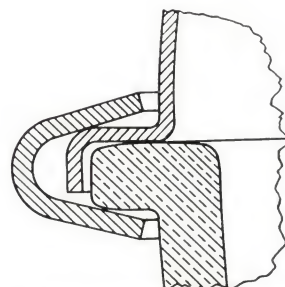
Tapped 1 1/4 Inches for Pipe Bracket or Mast Arm Mounting

For Series Circuits Up to 5000 Volts or Multiple Circuits

2500-10,000 Lumen—Up to 575 Watts



Joslyn types 50 and 90 wedge band luminaires have been skillfully designed and engineered to provide maximum luminous efficiency together with electrical and mechanical durability. Electrical characteristics are more than adequate for series circuits up to and including 5,000 volts. They are designed in accordance with the latest requirement for standardization as to types of light distribution and interchangeability. One of the many outstanding features is the smooth, self cleaning outer surfaces of the Holophane refractors and globe.



Detail of wedge band high pressure glassware-reflector sealing.

Interchangeability—The assembly, consisting of the reflector and glassware, can be attached to most other heads in addition to those supplied with the complete luminaire. This minimizes the number of parts required on the service truck for maintenance purposes. The series receptacle has mounting hole spacing and overall height in accordance with the latest standard practice. This still further reduces the number of service parts required, since this receptacle will fit into most other heads.

(Description continued on next page.)

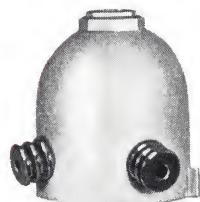


Style 50

COMPLETE LUMINAIRES WITH STYLE 50 HEAD

Inner Wiring

Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle			
		W.P. Series	D.P. Series	Mog. Mult.	Med. Mult.
Type 1	Holophane Refractor	J50079F	J50179F	J50279F	J50379F
Type 3	Holophane Refractor and Shield	J50078F	J50178F	J50278F	J50378F
Type 4	Globe and Deflector.....	J50077F	J50177F	J50277F	J50377F
Type 5	Globe	J50076F	J50176F	J50276F	J50376F



Style 51

COMPLETE LUMINAIRES WITH STYLE 51 HEAD

Two Porcelain Bushings

Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle			
		W.P. Series	D.P. Series	Mog. Mult.	Med. Mult.
Type 1	Holophane Refractor	J51079F	J51179F	J51279F	J51379F
Type 3	Holophane Refractor and Shield	J51078F	J51178F	J51278F	J51378F
Type 4	Globe and Deflector.....	J51077F	J51177F	J51277F	J51377F
Type 5	Globe	J51076F	J51176F	J51276F	J51376F



Style 52

COMPLETE LUMINAIRES WITH STYLE 52 HEAD

One Gland Bushing

Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle			
		W.P. Series	D.P. Series	Mog. Mult.	Med. Mult.
Type 1	Holophane Refractor	J52079F	J52179F	J52279F	J52379F
Type 2	Holophane Refractor and Shield	J52078F	J52178F	J52278F	J52378F
Type 3	Globe and Deflector.....	J52077F	J52177F	J52277F	J52377F
Type 4	Globe	J52076F	J52176F	J52276F	J52376F

JOSLYN STREET LIGHTING EQUIPMENT

Type 50 Wedge Band Luminaires

Tapped 1 1/4 Inches for Pipe Bracket or Mast Arm Mounting

For Series Circuits Up to 5000 Volts or Multiple Circuits

2500-10,000 Lumen—Up to 575 Watts

(Continued from previous page)

The various styles of aluminum heads are essentially the same with the exception of the method provided for wiring and mounting. All heads for top mounting have a 1 1/4-inch tapped hole, but can be tapped 1 1/2 or 2 inches if specified. The side mounting heads are for attachment to 1 1/4-inch pipe, but can be supplied for 2-inch pipe if specified. The two adjusting screws permit alignment of the luminaire. The wet process porcelain heat baffle protects the cable insulation from the heat developed by large lamps, and its use is recommended for lamps of 6,000 or 10,000 lumen ratings.

All bushings have pipe threads for attaching to the head, providing a tight and secure means of attachment. The porcelain bushings for single conductor wires have a 1/2-inch diameter hole and those for two conductor cable have a 1-inch diameter hole. When equipped with external terminals, the porcelain bushings for single conductor wires provide a water and dust tight seal. The gland bushings have a rubber packing gland for either single or two conductor cables.

(Description continued on next page)



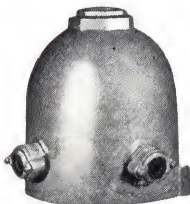
Luminaire with Style 50 Head and Holophane Refractor



Luminaire Style 50 Head and Ripple Globe

COMPLETE LUMINAIRES WITH STYLE 53 HEAD

Two Gland Bushings



Style 53

Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle	W.P. Series	D.P. Series	Mog. Mult. Med. Mult.
Type 1	Holophane Refractor	J53079F	J53179F	J53279F	J53379F
Type 3	Holophane Refractor and Shield	J53078F	J53178F	J53278F	J53378F
Type 4	Globe and Deflector.....	J53077F	J53177F	J53277F	J53377F
Type 5	Globe	J53076F	J53176F	J53276F	J53376F

COMPLETE LUMINAIRES WITH STYLE 56 HEAD

One Porcelain Bushing

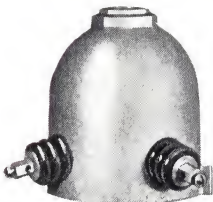


Style 56

Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle	W.P. Series	D.P. Series	Mog. Mult. Med. Mult.
Type 1	Holophane Refractor	J56079F	J56179F	J56279F	J56379F
Type 3	Holophane Refractor and Shield	J56078F	J56178F	J56278F	J56378F
Type 4	Globe and Deflector.....	J56077F	J56177F	J56277F	J56377F
Type 5	Globe	J56076F	J56176F	J56276F	J56376F

COMPLETE LUMINAIRES WITH STYLE 57 HEAD

Two Porcelain Bushings and External Terminals



Style 57

Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle	W.P. Series	D.P. Series	Mog. Mult. Med. Mult.
Type 1	Holophane Refractor	J57079F	J57179F	J57279F	J57379F
Type 3	Holophane Refractor and Shield	J57078F	J57178F	J57278F	J57378F
Type 4	Globe and Deflector.....	J57077F	J57177F	J57277F	J57377F
Type 5	Globe	J57076F	J57176F	J57276F	J57376F

JOSLYN STREET LIGHTING EQUIPMENT

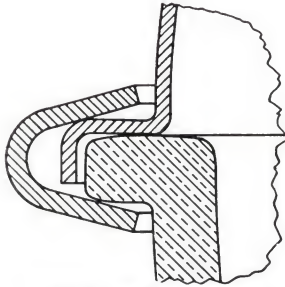
Type 90 Wedge Band Luminaires

With Slip Fitter for 1 1/4-Inch Pipe

For Series Circuits Up to 5000 Volts or Multiple Circuits

2500-10,000 Lumen—Up to 575 Watts

(Continued from previous page)

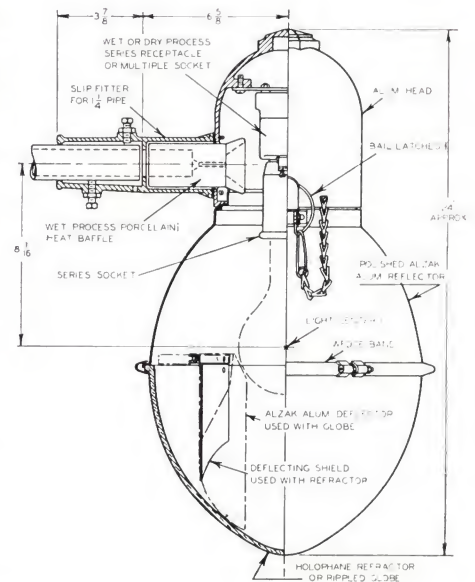


Detail of Wedge Band High Pressure Glassware Reflector Sealing

The series receptacles are available in wet or dry process porcelain. Overall height is 3 3/8 inches, and mounting holes are located on 4 3/8-inch centers to take No. 12-24 or smaller machine screws. The mogul multiple and medium multiple sockets are equipped with mounting brackets having the same mounting hole spacing as the series receptacles. The series socket conforms to the latest standards for interchangeability. The white glazed porcelain housing is 3 1/2 inches long and all metal parts are made of heavy, nickel plated bronze, providing ample current carrying capacity for all series circuits.

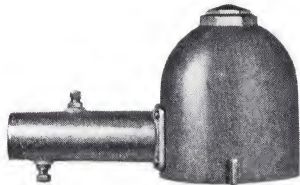
Reflector is made of heavy gage Alzak Aluminum with a highly polished reflecting surface and natural finish outer surface. The Wedge Band Globe Holder embodies a new principle of sealing the glassware to the reflector without the use of a gasket. It is made of heavy rolled aluminum and is provided with a 3/4-inch diameter non-ferrous bolt. The conical seating surface of the reflector acts as a spring diaphragm, which is drawn down by the wedge band into exact conformity with the glassware flange.

Types 1 and 3 distributions are provided by the use of Holophane refractors, which have a prismatic inner surface and a smooth outer surface. Types 4 and 5 distributions, a clear rippled globe is used.



COMPLETE LUMINAIRES WITH STYLE 95 HEAD

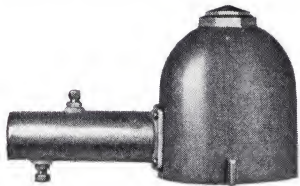
Inner Wiring with Wet Process Porcelain Heat Insulator



Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle	W.P. Series	D.P. Series	Mog. Mult. Med. Mult.
Type 1	Holophane Refractor	.....	J95079F	J95179F	J95279F J95379F
Type 3	Holophane Refractor & Shield	.....	J95078F	J95178F	J95278F J95378F
Type 4	Globe & Deflector	.....	J95077F	J95177F	J95277F J95377F
Type 5	Globe	.....	J95076F	J95176F	J95276F J95376F

COMPLETE LUMINAIRES WITH STYLE 90 HEAD

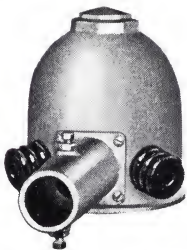
Inner Wiring without Heat Insulator



Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle	W.P. Series	D.P. Series	Mog. Mult. Med. Mult.
Type 1	Holophane Refractor	.....	J90079F	J90179F	J90279F J90379F
Type 3	Holophane Refractor & Shield	.....	J90078F	J90178F	J90278F J90378F
Type 4	Globe & Deflector	.....	J90077F	J90177F	J90277F J90377F
Type 5	Globe	.....	J90076F	J90176F	J90276F J90376F

COMPLETE LUMINAIRES WITH STYLE 91 HEAD

Two Porcelain Bushings



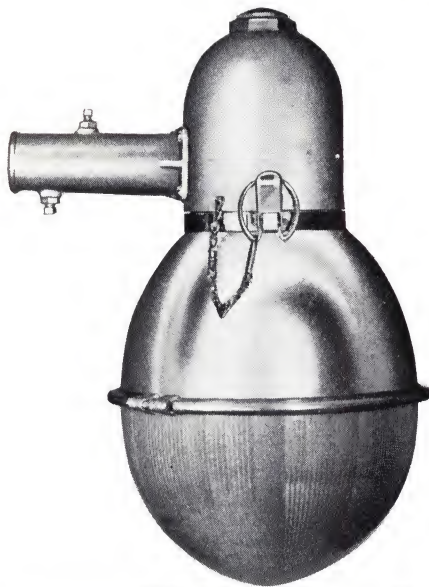
Distribution	Glassware	Cat. No. of Complete Luminaire			
		Type Socket or Receptacle	W.P. Series	D.P. Series	Mog. Mult. Med. Mult.
Type 1	Holophane Refractor	.....	J91079F	J91179F	J91279F J91379F
Type 3	Holophane Refractor & Shield	.....	J91078F	J91178F	J91278F J91378F
Type 4	Globe & Deflector	.....	J91077F	J91177F	J91277F J91377F
Type 5	Globe	.....	J91076F	J91176F	J91276F J91376F

JOSLYN STREET LIGHTING EQUIPMENT

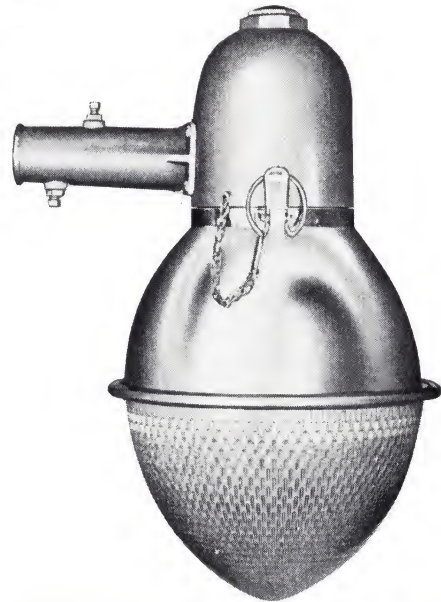
Type 90 Wedge Band Luminaires

With Slip Fitter for 1 1/4-Inch Pipe

For Series Circuits Up to
5000
Volts or Multiple Circuits
2500-10,000 Lumen—
Up to 575 Watts



Luminaire with
Style 90 Head
and Ripple Globe



Luminaire with Style
90 Head and Holophane
Refractor

COMPLETE LUMINAIRES

Cat. No. of Complete Luminaire
Type Socket or Receptacle

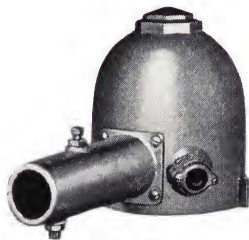
Distri-
bution

Glassware

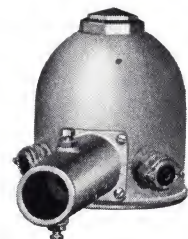
W.P. Series D.P. Series Mog. Mult. Med. Mult.

Style 92 Head—One Gland Bushing

Type 1	Holophane Refractor	J92079F	J92179F	J92279F	J92379F
Type 3	Holophane Refractor & Shield	J92078F	J92178F	J92278F	J92378F
Type 4	Globe and Deflector	J92077F	J92177F	J92277F	J92377F
Type 5	Globe	J92076F	J92176F	J92276F	J92376F
Style 93 Head—Two Gland Bushings					
Type 1	Holophane Refractor	J93079F	J93179F	J93279F	J93379F
Type 3	Holophane Refractor & Shield	J93078F	J93178F	J93278F	J93378F
Type 4	Globe and Deflector	J93077F	J93177F	J93277F	J93377F
Type 5	Globe	J93076F	J93176F	J93276F	J93376F



Style 92



Style 93

COMPLETE LUMINAIRES WITH STYLE 96 HEAD

One Porcelain Bushing

Distri-
bution

Glassware

Cat. No. of Complete Luminaire
Type Socket or Receptacle

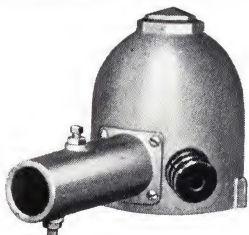
W.P. Series

D.P. Series

Mog. Mult.

Med Mult.

Type 1	Holophane Refractor	J96079F	J96179F	J96279F	J96379F
Type 3	Holophane Refractor & Shield	J96078F	J96178F	J96278F	J96378F
Type 4	Globe and Deflector	J96077F	J96177F	J96277F	J96377F
Type 5	Globe	J96076F	J96176F	J96276F	J96376F



Style 96

COMPLETE LUMINAIRES WITH STYLE 97 HEAD

Two Porcelain Bushings and External Terminals

Distri-
bution

Glassware

Cat. No. of Complete Luminaire
Type Socket or Receptacle

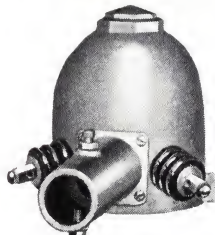
W.P. Series

D.P. Series

Mog. Mult.

Med Mult.

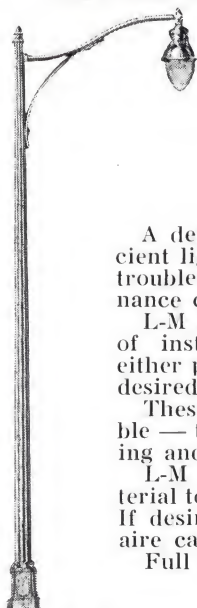
Type 1	Holophane Refractor	J97079F	J97179F	J97279F	J97379F
Type 3	Holophane Refractor & Shield	J97078F	J97178F	J97278F	J97378F
Type 4	Globe and Deflector	J97077F	J97177F	J97277F	J97377F
Type 5	Globe	J97076F	J97176F	J97276F	J97376F



Style 97

L-M STREET LIGHTING

L-M STREET LIGHTING STANDARDS



The L-M line of street lighting equipment includes every item required for a complete modern installation — luminaires, standards, brackets, mast-arms, switches, transformers, cut-outs, etc.

A dependable, complete line of efficient lighting, lasting good appearance, trouble-free service and low maintenance cost.

L-M Lighting Standards for all types of installations can be supplied in either pressed steel or concrete for any desired mounting height.

These standards are strong and durable — their ornamental design is pleasing and correct to the last detail.

L-M offers a complete line of material to meet every street lighting need. If desired, a specially designed luminaire can be supplied.

Full particulars furnished on request.

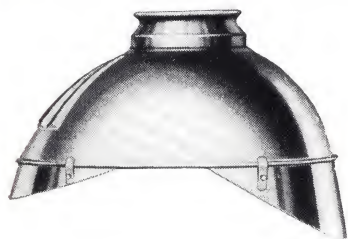
L-M DIRECTOLITE GLASS REFLECTOR

Light distribution similar to that of modern enclosed luminaires at a cost comparable to the old style radial reflectors in which a mirrored reflecting surface is permanently bonded to the glass of shock-proof qualities. Even illumination is obtained with very few shadows under usual installation conditions.



Cat. No.	Description	For Light Center Lamps, In.
614308A1	Small Symmetric Reflectors	5%
614308A2	Large Symmetric	7

STAINLESS STEEL DIRECTOLITE REFLECTOR



A sturdy, rigid reflector whose physical properties of strength and permanence assure many years of trouble free, low cost operation. Equally important are the excellent lighting characteristics which give

high utilization of light on the street surface. With lighting characteristics in I.E.S. Type II classification, this luminaire finds its natural application for residential streets. It is available with a complete line of collars for attachment to porcelain and metal heads in which correct focal position is obtained with normal settings for 1,000 and 2,500 lumen 5 $\frac{1}{8}$ -inch light center series street lamps or 5 $\frac{1}{4}$ -inch light center multiple lamps.

Cat. No.	Description
614338B1	Reflector with street and house side shields.
614337B1	Plain reflector without street or house side shields.
614340A5	Street side shield.
614340A3	House side shield.

L-M STREET LIGHTING

L-M METROLITE LUMINAIRE



The Metrolite Luminaire is recommended for use on straight series circuits of 11,000 volts or less and on multiple street lighting circuits. Furnished with a wet process, green glazed porcelain head fitted with metal dead end terminals for outer wiring. This luminaire is available in a variety of glassware and reflector combinations, and with a wide selection of cast iron hoods for mounting, and with either series or mogul multiple socket.

Listed and illustrated here is the L-M Metrolite porcelain head with 20-inch radial bowl and radial wave reflectors and series socket.

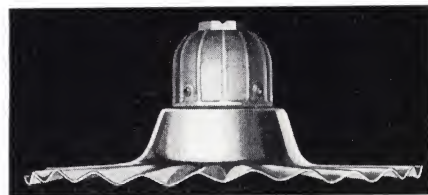
Cat. No.

- *600011C1 Radial Bowl Reflector with Type C Collar for Clip Attachment.
- †600011C2 Radial Wave Reflector with Type C Collar for Clip Attachment.
- *600011C9 Radial Bowl Reflector with Type G Collar for Clip or Adapter Attachment.
- †600011C10 Radial Wave Reflector with Type G Collar for Clip or Adapter Attachment.

*5 $\frac{1}{8}$ and 7-inch light center lamps.

†5 $\frac{1}{8}$ -inch light center lamps.

L-M METAL CONVERTOLITE LUMINAIRE



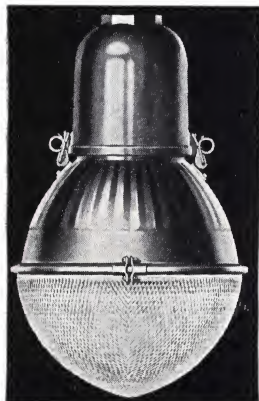
This fixture consists of a metal hood and metal cast reflector, or radial reflector. The cast reflector is furnished in two sizes, a short type for multiple service, and a long type for series service. Four different types of hoods are available, adaptable to various types of mounting. Hoods are furnished for 1 $\frac{1}{4}$ -inch pipe tap, unless otherwise specified. All 8-inch Holophane refractors may be used with this fixture. The advantageous feature of this unit is that it can easily be converted into a porcelain head type unit, for use on high voltage series circuit, by merely attaching a porcelain head type unit between the hood and cast or radial reflector.

Mogul Multiple	Cat. No.	Series	Description
602016C1	With 20-inch Bowl Reflector
602016C2	With 20-inch Wave Reflector

L-M STREET LIGHTING

L-M SPHEROLITE LUMINAIRE

The Spherolite Luminaire with Fluted Alzak Aluminum reflector increases lamp efficiency — gives more light without increasing lamp size. Light is directed to the street and the concealed-light-source eliminates glare. Light weight — weather-proof, dust-tight construction — detachable glassware for easy replacement in the field, all these quality features lower the maintenance cost.



Designed for use with lamps up to and including 575 watts or 10,000 lumens. Available with a choice of controlled light patterns, a choice of glassware holders and wide selection of internally and externally wired hoods for series or multiple circuits, and a selection of porcelain heads.

Illustrated here is the Spherolite Luminaire with inner wired metal head and V-band glassware holder. Furnished with series receptacle

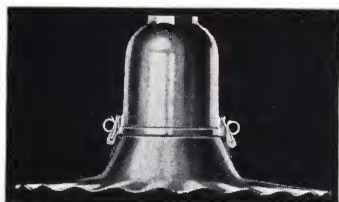
and recommended for use on 5000-volt series circuits or less. Furnished with multiple socket where desired to standardize on one size hood for a complete system.

For Series Operation

Cat. No.	Description
603800 C4	With Globe only, Symmetric light distribution. IES Type V. V-Band Glassware Holder.
603800 C5	With B-way Refractor and Deflector, Asymmetric. IES Type III. V-Band Glassware Holder.
603800 C6	With Globe and Deflector, Asymmetric. IES Type IV. V-Band Glassware Holder.

For Mogul Multiple Operation

603800 C10	With Globe only, Symmetric light distribution. IES Type V. V-Band Glassware Holder.
603800 C11	With B-way Refractor and Deflector, Asymmetric. IES Type III. V-Band Glassware Holder.
603800 C12	With Globe and Deflector, Asymmetric. IES Type IV. V-Band Glassware Holder.



Open type reflector attached to the inner wired high-voltage Spherolite metal head. Furnished with wet process porcelain series receptacle and recommended for 5000-volt series circuits or less. Produces IES Type V symmetric light distribution.

Cat. No.	Description
602008 C4	With Alzak Aluminum Reflector

L-M STREET LIGHTING

L-M SPHEROLITE LUMINAIRE

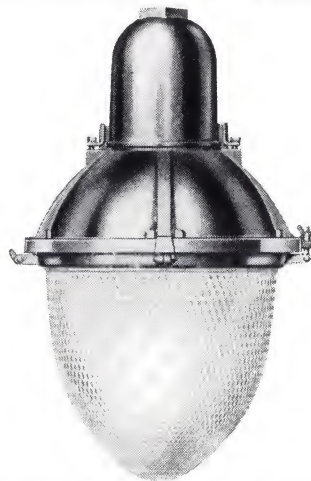


Spherolite Luminaire with Metro-lite porcelain head and pressure latch glassware holder.

Furnished with series receptacle and recommended for use on straight series circuits of 11,000 volts or less.

Cat. No.	Description
600000 C1	With Globe only, Symmetric, IES Type V distribution.
600000 C2	With B-way Refractor and Deflector, Asymmetric, IES Type III distribution.
600000 C3	With Globe and Deflector, Asymmetric, IES Type IV distribution.

L-M CONTROLITE SR. LUMINAIRE

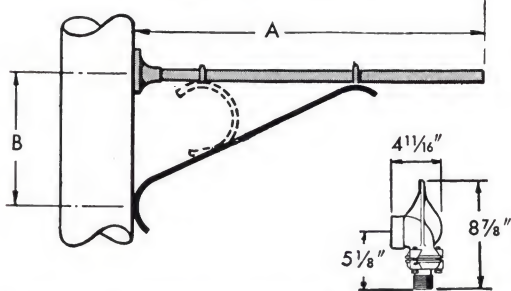


The Controlite Sr. Luminaire is an ornamental unit with concealed light source, especially recommended for use on straight series circuits of 5000 volts or less with 4000 to 15000 lumen lamps, and on multiple street lighting circuits with 300 to 750-watt lamps. It is ideal for the efficient and aesthetic lighting of the boulevards and business districts of larger cities.

This luminaire controls the light scientifically with an Alzak Aluminum dome reflector for symmetric light distribution and with an additional Alzak Aluminum deflector for asymmetric IES Type IV light distribution. In addition to the rigid suspension type illustrated and listed, luminaires are available with ornamental suspension type or adjustable heads.

300-750 Watt Lamps		
Cat. No.	Type	Distribution
602020C103	Mogul Mult.	Asymmetric IES Type IV
602020C3	Mogul Mult.	Symmetric IES Type V
4000-15000 Lumen Lamps		
602020C101	H.V.W.P.	Asymmetric IES Type IV
602020C1	H.V.W.P.	Symmetric IES Type V

L-M STREET LIGHTING STRAIGHT 1 1/4-INCH PIPE BRACKETS

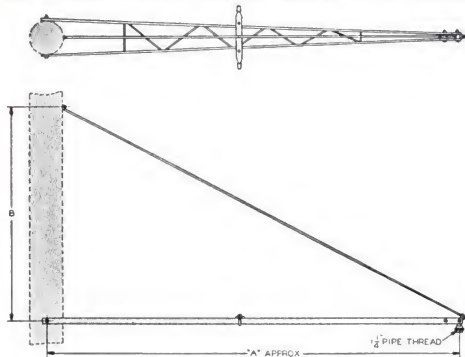


The conventional style of wood pole mounted bracket is available with a selection of flat and curved cast pole plates, or with a welded steel curved plate. Scrolls, constructed of flat or channel steel, are available in single and double types.

With Single Flat Channel Steel Scroll
and Pressed Steel Pole Plate

Cat. No.	Description	"A"	"B"
637034C3	With Plumbizer	4'-0"	1'-6 1/2"
With Double Flat Channel Steel Scroll and Malleable Iron Pole Plate			
637035C67	With Plain Unthreaded End	4'-0"	1'-6 1/2"

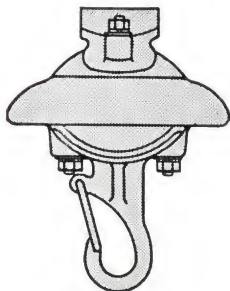
L-M TRUSWELD MAST ARM COMPLETE



A Trusweld type Mast Arm furnished with rigid end fitting equipped with 1 1/4-inch pipe threads for accommodating luminaire. If specified, other sizes of pipe threads will be furnished. Length "A" to be specified when ordering. Galvanized.

Cat. No.	A		B	
	Feet	Inches	Feet	Inches
636609C19	6	0	2	6
636609C20	8	0	3	0
636609C21	10	0	3	6
636609C22	12	0	4	0
636609C23	14	0	4	6
636609C24	16	0	5	0

L-M INSULATED SAFETY HOOK FOR STREET LIGHTING

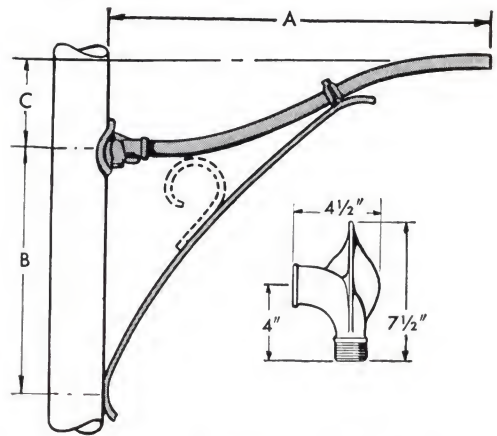


Where protection is of vital importance this hanger is recommended. The high voltage insulator is a solid piece of porcelain. The iron top cap is flat and tapped to fit a 3/4-inch or 1 1/4-inch pipe.

All metal parts are galvanized.

243	For 3/4-inch Pipe
286	For 1 1/4-inch Pipe

L-M STREET LIGHTING L-M UPSWEEP PIPE BRACKET



An upsweep pipe bracket of 1 1/4 or 2-inch pipe furnished with a malleable iron pole plate for wood pole mounting. End fittings are furnished with pipe thread unless specified with straight end for slip fitter heads. Galvanized.

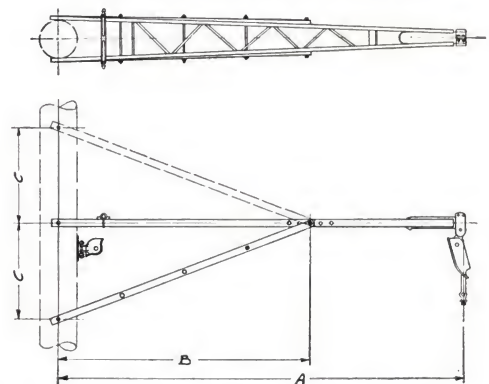
With Ornamental Ell 1 1/4-Inch Pipe Brackets

Cat. No.	Dimensions		
	A	B	C
637000Z49	4'-0"	2'-2 1/2"	1'-3"
637000Z65	6'-0"	3'-1 1/4"	1'-7"
637000Z81	8'-0"	3'-8"	2'-0"

2-Inch Pipe Brackets

637002Z8	4'-0"	2'-2 1/2"	1'-3"
637002Z24	6'-0"	3'-1 1/4"	1'-7"
637002Z40	8'-0"	3'-8"	2'-0"

L-M TRUSWELD MAST ARM WITH ORIENTATING PULLEY



A very sturdy Trusweld Mast Arm due to the heavy side braces which are bolted to the outside of the channel and extend to both sides of the pole. If desired, these channel braces may be used above the arm. Galvanized. May be furnished with spreader.

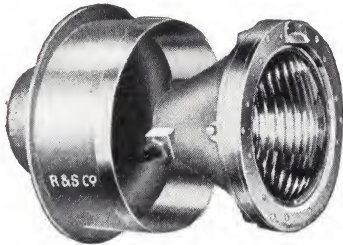
Cat. No.	Arm Without Spreader	Dimensions		
		A	B	C
636615C1	6'	6'	3'-9"	1'-10"
636615C2	8'	8'	5'-7"	1'-10"
636615C3	10'	10'	7'-3"	2'-8"
636615C4	12'	12'	8'-11"	3'-6"
636615C5	14'	14'	10'-7 1/2"	4'-4"
636615C6	16'	16'	12'-6"	5'-0"

R & S UNDERWATER LIGHTING FOR SWIMMING POOLS

Cast Bronze Equipped with Alzak Aluminum Reflector and Clear Spread Light Lens

To insure against shock due to accidental grounds or short circuit, means are provided for effectively grounding all metal parts.

REMOVABLE WATER-COOLED TYPE



For any pool where it is inconvenient or uneconomical to drain the water for relamping, these adjustable water-cooled units are particularly suitable.

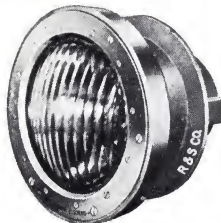
Relamping is accomplished by releasing the surplus cable in the pull box and removing the floodlight unit from the housing in the concrete wall.

Watts	Description	Cat. No.	Price Each
250-400	*Removable Floodlight only	2362	\$80.00
1000-1500	*Removable Floodlight only	2398	170.00
250-400	Housing for No. 2362	2362H	35.00
250-400	Housing for No. 2362	2362SH	45.00
1000-1500	Housing for No. 2398	2398H	75.00
	Cable Box for No. 2362 or 2398	2363	28.00
	Trunion Plates (Set of 2)	2362TP	7.00
	Support Bracket	2362B	3.00

*Equipped with 16 ft. of heavy duty cable.

FRONT RELAMPED TYPE

This flood-light is used in pools which are drained frequently or at regular intervals. At such times a burned out lamp may be replaced by the removal of the front bezel.



Watts	Description	Cat. No.	Price Each
250	Floodlight only	2360	\$75.00

BACK RELAMPED TYPE



Indoor pools are usually constructed with a passageway or space behind the pool walls. These floodlights are specifically designed for this type of pool construction. To relamp these units the back cover plates are taken off by the removal of the wing nuts.

Watts	Description	Cat. No.	Price Each
250	Floodlight only	2364	\$95.00
400	Floodlight only	2365	100.00
1000-1500	Floodlight only	2422	250.00

Lighting location layout for illuminating a particular pool will be prepared without obligation.

Lamps are not furnished with fixtures. Type G "Floodlight Service" lamps should be used.

Conduit and drain connections not furnished. Drawing showing recommended method of installing floodlights furnished with each job.

R & S WATERTIGHT FIXTURES

FOR FOUNTAIN ILLUMINATION

Reflector Type Fountain Light



No. 2303

No. 2303 and 2417 for fountains, small pools and lily ponds. No. 2096 is similar to No. 2303 but made of aluminum for fish ponds.

Description	Cat. No.	Price Each
100 watt, bronze	2303	\$25.00
100 watt, aluminum	2096	33.50
150 watt, bronze	2417	40.00

GLOBE TYPE FOUNTAIN LIGHT

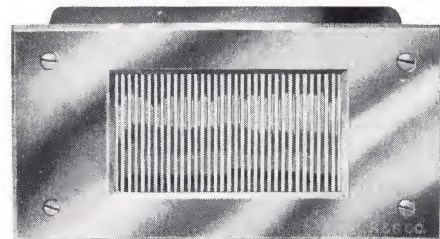
The flared lip globe type fountain light is designed for installation in small pools and fountains for general illumination of water.



No. 2369

Watts	Overall Height	Cat. No.	Price Each
25	5 3/4"	2366	\$10.00
100	7 3/4"	2367	12.00
150	8 3/4"	2368	15.00
200	9 3/4"	2369	18.00

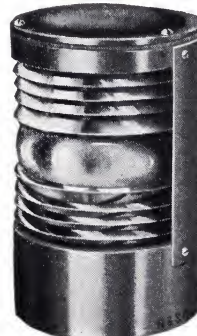
STEP LIGHT FOR LANDSCAPE ILLUMINATION



Designed to illuminate steps, terraces, entrance gates, patios, etc. Bronze construction eliminates corrosion. Arranged for flush mounting and supplied with diffusing glass panels which re-directs the light downwardly. Statuary bronze, standard finish. Other finishes available.

Price, No. 2090 (Max. size lamp, 100-watt) ..\$25.00

CURB LIGHT



For installation along drive-ways, catwalks and terraces. Equipped with fresnel lens which gives a wide horizontal beam of light, eliminating any tendency of light being thrown upwardly on the surrounding landscape.

Constructed entirely of cast bronze with all external parts brush bronze finish. Other finishes are available.

Maximum size lamp, 60 watt.

Price, No. 2092.....each \$20.00

SEYLER POLE LINE HARDWARE

Hot Galvanized

U-THRU SECONDARY RACKS



0378-2768

Heavy U-Thru Secondary Racks have points pressed from 12 gauge steel formed so the smooth, round side of points are inside, toward the line wire. The rack back is pressed from 9 gauge steel and is 3½ inches wide. Extension to center of insulator bolt is 4 inches. Insulator is No. 255.

Light U-Thru Secondary Racks are constructed on the same principle as the Heavy Type except that the backs and points are pressed from 12 gauge steel and insulators are smaller, No. 0606 Insulator being standard equipment. Exceptional strength is provided for a light rack, the "U" through principle with its advantages being a feature of this rack. Extension to center of insulator bolt: 6 and 12-inch spacing, 3½ inches; 8-inch spacing, 4¼ inches.

Heavy U-Thru Secondary Racks

No. of Wires	Spacing	Extended Back			Non-Extended Back		
		Cat. No.	Length Back	Wt. Lb. Per 100	Cat. No.	Length Back	Wt. Lb. Per 100
2	8	0278	17¼	786	0728	14	761
3	8	0378	25¼	1234	0738	22	1189
4	8	0478	33¼	1612	0748	30	1557

Light U-Thru Secondary Racks

2	8	1768	16½	567	0028	13½	542
3	8	2768	24½	733	0038	21½	703
4	8	3768	32½	1029	0048	29½	989

SECONDARY RACKS WITH EXTENDED BACKS

The light forged type secondary racks are made of one-piece back to which drop forged steel points are riveted and electrically welded. For use on buildings or for light secondary runs they have ample strength and rigidity. No. 0606 Insulators are standard.

Heavy type racks are also made with extended ends for pole mounting; in all other respects they are identical with the 1834 Series heavy type secondary racks. These racks may be completely assembled on the ground and sent up the pole complete. The extended back gives the lineman free access to the mounting holes thereby reducing installation time to a minimum. Insulator No. 255 is regularly furnished with these racks.

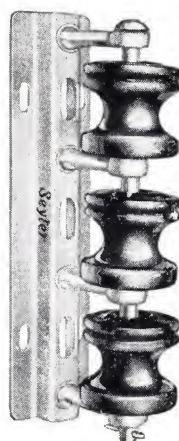


No. of Wires	Wire Spacing	Light Type			Heavy Type		
		Cat. No.	Overall Length	Wt. Lb. Per 100	Cat. No.	Overall Length	Wt. Lb. Per 100
2	8	1748	15	684	1848	16½	500
3	8	2748	23	754	2848	24½	750
4	8	3748	31	954	3848	32½	1040

SEYLER POLE LINE HARDWARE

Hot Galvanized

HEAVY TYPE SECONDARY RACKS



No. 2834

Cat. No.	No. of Wires	Wire Spacing	Overall Length	Wt. Lb. Per 100
1838	2	8	13½	500
2838	3	8	21½	760
3838	4	8	29½	1040

Seyler heavy type secondary racks are designed for secondary network duty where relatively heavy loads may be expected. The back is heavy pressed steel, points are drop forged steel, riveted then electrically welded to the back. Insulator bolt is made of ⅝-inch high carbon steel. Center mounting holes are 1½ x 1⅝ inches and side mounting holes are ¾ x ⅝ inch. Extension to center of bolt hole, 4 inches; to center of outer wire groove, 4⅞ inches. Insulator No. 255 standard.

INSULATORS FOR SECONDARY RACKS



No. 255



No. 0716



No. 0606

Brown glazed dry process insulators furnished on all heavy type racks unless otherwise specified. Wet process and white glazed insulators can also be furnished.

Cat. No.	Description	Wt. Lb. Per 100
255	Dry Process Brown—Secondary	118
355	Wet Process Brown—Secondary	118
255	Dry Process White—Secondary	118
0716	Wet Process Brown—A.C.S.R. Wire	290
0616	Dry Process Brown—Service	46
0606	Wet Process Brown—Service	46

WIREHOLDER

This single point wireholder offers all the advantages of strength and compactness. The wire hole is 1 inch diameter and will accommodate normal sized service wires. Screws are smooth, sharp pointed for easy starting and full threaded. The screw is provided with an upset shoulder at the base to prevent parts from being loosened when installing.

Nos. 3-11-100 is similar to 3-11-44 except non-ferrous.



No. 3-11-44

Cat. No.	Equipped With	Size of Screw or Bolt	Size of Wire Hole	Wt. Lbs. Per 100
3-11-44	Wood Screw	No. 22x2¼	⅞ x 1	65
3-11-45	Wood Screw	No. 22x3	⅞ x 1	67
3-11-46	Wood Screw	No. 22x4	⅞ x 1	69
3-11-48	Wood Screw	No. 22x6	⅞ x 1	73

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

HEAVY SERVICE SECONDARY RACKS



These racks are designed for the heaviest secondary service loads. The rounded back fits snugly to the pole and provides a broad bearing surface. The backs are made of 1/8-inch open hearth steel and the racks are hot dip galvanized with the greatest of care to prevent rough spots which might damage the insulation on the wire.

Extended Back Type

Cat. No.	No. of Wires	Wire Spacing Inches	Net Wt. Lbs. per 100—	
			With Insulators	Without Insulators
J1067	2	4	654	430
J1167	2	6	734	510
J1267	2	8	774	550
J1367	2	12	934	710
J1068	3	4	886	550
J1168	3	6	1066	730
J1268	3	8	1166	830
J1069	4	4	1158	710
J1169	4	6	1398	950
J1170	4	8	1543	1095

Also provided with Non-extended back.

No. J700 SERIES SECONDARY RACKS

These low priced No. J700 Series Racks have been redesigned to give greater pole bearing surface. They are stronger than ever, being all welded construction.

Smooth rounded pressed steel arms will not damage insulation when stringing secondaries.

Cat. No.	No. of Wires	Wire Spacing Inches	Net Wt. Lbs. per 100—	
			With Insulators	Without Insulators
J767	2	8	714	490
J771	2	12	844	620
J765	3	4	826	490
J768	3	8	1066	730
J772	3	12	1286	950
J769	4	8	1436	990



LIGHT SERVICE SECONDARY RACKS

The Light Type Rack is provided with extended back only. The back is made of 1/8-inch thick open hearth steel formed to provide the greatest possible strength. The smooth pressed steel points are welded to the back.

The patented method of driving the point through the web of the channel shaped back and welding to the base of the flanges, gives Joslyn secondary racks strength to withstand the severest condition.

Cat. No.	No. of Wires	Wire Spacing Inches	Net Wt. Lbs. per 100—	
			With Insulators	Without Insulators
J2646	2	6	440	348
J2648 [▲]	2	8	480	388
J3646	3	6	626	488
J3648 [▲]	3	8	706	568
J4646	4	6	822	638
J4648	4	8	937	753

[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

SERVICE WIREHOLDERS



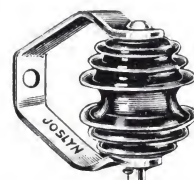
All steel parts are hot dip galvanized and yet the threads on the screw are just as clean and sharp as those on plated screws which eventually rust out. All edges on the porcelain insulator are well rounded and will not chip even though a steel bar is used as a handle to install the wireholder. 7/8x1-inch wire hole.

Cat. No.	Description	Wt. Lbs. Per 100
J089 [▲]	With No. 22x2 1/4-Inch Screw.....	75
J0893	With No. 22x3-Inch Screw	78
J0894	With No. 22x4-Inch Screw, 2 1/2-Inch Thread	80

PRIMARY SPOOL TYPE CLEVISES

Cross Arm Mounting Type

Cat. No.	J0344
Insulator No.	J0613
Type of Insulator.....	W.P.
Net Wt. per 100.....	Lb. 490

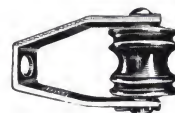


Cross Arm Mounting Type

Cat. No.	J0340	[▲] J0342
Insulator No.	J97	J151
Type Insulator.....	W.P.	W.P.
Net Wt. per 100, lb.	250	220

Cross Arm Mounting Type

Cat. No.	J0339	[▲] J0341
Insulator No.	J98	J100
Type Insulator.....	W.P.	D.P.
Net Wt. per 100, lb.	145	125



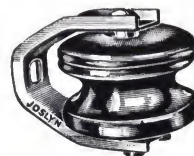
INSULATED CLEVISES

These Clevises are equipped with an insulator having a 3-inch diameter conductor groove for use with A.C.S.R. Mechanical strength, 6500 pounds.



Cat. No.	[▲] J0327
Insulator No.	J0101
Type of Insulator.....	W.P.
Net Wt. per 100.....	lb. 415

Cat. No.	[▲] J463
Insulator No.	J0101
Type Insulator	W.P.
Net Wt. per 100.....	Lb. 396



SWINGING BRACKETS

Used on the end of a single spool bracket bolt for service drops, it will readily adapt itself to any angle.



Cat. No.	Insulator No.	Type	Net Wt. Per C
[▲] J1624	J150	W.P.	111
[▲] J1626	J100	D.P.	111

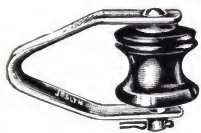
[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

INSULATED CLEVIS

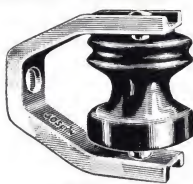
For Use with Eyebolts



Cat. No.**▲J0322**
 Insulator No. J151
 Type of Insulator..... W.P.
 Net Wt. per 100.....Lb. 252

INSULATED SECONDARY FORKS

No. J93



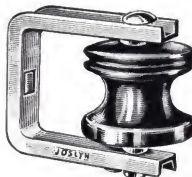
No. J461

The Nos. J93 and J461 Forks are made from a special channel section $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ inches with rounded edges. Wire can be pulled through these forks without injury.

Cat. No.	J93	J461
Insulator No.	J101	J101
Type Insulator	D.P.	D.P.
Net Weight per 100.....	Lb. 250	250

Formed from $1 \times \frac{1}{2} \times \frac{1}{8}$ -inch channel. Can be mounted with either a $\frac{5}{8}$ -inch carriage or machine bolt.

Cat. No.	J093	▲J193
Insulator No.	J101	J151
Type Insulator	D.P.	W.P.
Net Wt. per 100, lb.	234	234

**INSULATED FORK BOLTS**

No. J87

Made of open hearth steel, $1\frac{1}{2}$ -inches wide by $\frac{1}{4}$ -inch thick. Used as span wire supports; provided with No. J24 insulator. All bolts are $\frac{1}{2}$ -inch in diameter. Also provided with 4-inch lag screw.

No. J24 Insulator is $1\frac{1}{8}$ -inches in diameter and $1\frac{1}{4}$ -inches high with $\frac{5}{8}$ -inch groove. From center of insulator pin to back of fork, $2\frac{1}{2}$ -inches.

Cat. No.	Description	Wt. Lbs. Per 100
J79	Insulator Fork Only.....	120
J86	With $\frac{1}{2} \times 4$ -Inch Lag Screw.....	141
J87	With $\frac{1}{2} \times 4\frac{1}{2}$ -Inch Machine Bolt.....	151
J89	With $\frac{1}{2} \times 8$ -Inch Machine Bolt.....	168
J90	With $\frac{1}{2} \times 10$ -Inch Machine Bolt.....	176
J91	With $\frac{1}{2} \times 12$ -Inch Machine Bolt.....	186
J92	With $\frac{1}{2} \times 14$ -Inch Machine Bolt.....	195

SPOOL INSULATORS

For Clevises, Racks and Brackets



No. J100-J150

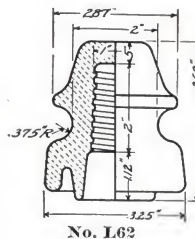


No. J101-J151

Cat. No.	Type of Insulator	For Size Bolt	Net Wt. Lbs. Per 100
J100 [▲]	Dry Process	$\frac{1}{2}$ inch	46
J150 [▲]	Wet Process	$\frac{3}{8}$ inch	46
J101	Dry Process	$\frac{5}{8}$ inch	112
J151 [▲]	Wet Process	$\frac{5}{8}$ inch	112
J0101 [▲]	Wet Process	$\frac{5}{8}$ inch	275

No. J0101 has 3-in. diameter conductor groove for use with A.C.S.R.

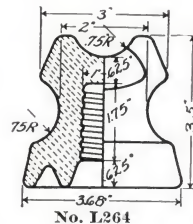
[▲]These items are R.E.A. Standard.

JOSLYN PORCELAIN INSULATORS**PINCO PIN TYPE DISTRIBUTION INSULATORS**

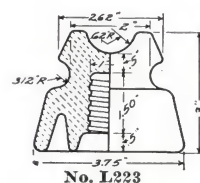
No. L62

No.	L62
Rated Voltage	kv. 6.6
Dry Flashover	kv. 35
Wet Flashover	kv. 23
Impulse Kv., $1\frac{1}{2} \times 40$	
MS. Positive Wave.....	50
Leakage Distance	in. 4
Diam. of Pin Hole.....	in. 1
Min. Height of Pin.....	in. $4\frac{1}{2}$
No. in Std. Pkg.....	50
Packed Wt. Each.....	lbs. $1\frac{1}{4}$

No.	L264
Rated Voltage	kv. 6.6
Dry Flashover	kv. 50
Wet Flashover	kv. 25
Impulse Kv., $1\frac{1}{2} \times 40$	
MS. Positive Wave.....	75
Leakage Distance	in. 4
Diam. of Pin Hole.....	in. 1
Min. Height of Pin.....	in. 4
No. in Std. Pkg.....	50
Packed Wt. Each.....	lbs. $1\frac{1}{2}$

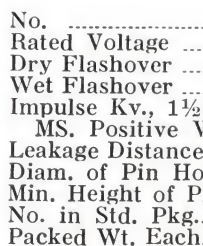


No. L264



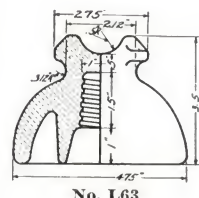
No. L223

No.	L223
Rated Voltage	kv. 6.6
Dry Flashover	kv. 50
Wet Flashover	kv. 25
Impulse Kv., $1\frac{1}{2} \times 40$	
MS. Positive Wave.....	75
Leakage Distance	in. $5\frac{1}{4}$
Diam. of Pin Hole.....	in. 1
Min. Height of Pin.....	in. 4
No. in Std. Pkg.....	50
Packed Wt. Each.....	lbs. $1\frac{1}{2}$

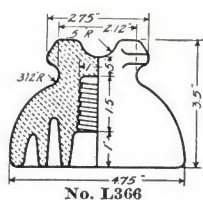


No. L63

No.	L63
Rated Voltage	kv. 13.5
Dry Flashover	kv. 65
Wet Flashover	kv. 40
Impulse Kv., $1\frac{1}{2} \times 40$	
MS. Positive Wave.....	100
Leakage Distance	in. $7\frac{1}{2}$
Diam. of Pin Hole.....	in. 1
Min. Height of Pin.....	in. 5
No. in Std. Pkg.....	32
Packed Wt. Each.....	lbs. $2\frac{1}{4}$



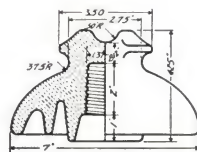
No. L63



No. L366

No.	L366
Rated Voltage	kv. 13.5
Dry Flashover	kv. 65
Wet Flashover	kv. 40
Impulse Kv., $1\frac{1}{2} \times 40$	
MS. Positive Wave.....	100
Leakage Distance	in. $8\frac{1}{2}$
Diam. of Pin Hole.....	in. 1
Min. Height of Pin.....	in. 5
No. in Std. Pkg.....	32
Packed Wt. Each.....	lbs. $2\frac{1}{4}$

No.	*L367
Rated Voltage	kv. 23
Dry Flashover	kv. 90
Wet Flashover	kv. 50
Impulse Kv., $1\frac{1}{2} \times 40$	
MS. Positive Wave.....	140
Leakage Distance	in. 12
Diam. of Pin Hole.....	in. 1
Min. Height of Pin.....	in. 6
No. in Std. Pkg.....	9
Packed Wt. Each.....	lbs. 6



No. L367

*No. 367 with $1\frac{3}{8}$ -inch pin hole is No. L367A.

JOSLYN PORCELAIN INSULATORS

PINCO PIN TYPE DISTRIBUTION INSULATORS

No.	L69
Rated Voltage	27 kv.
Dry Flashover	95 kv.
Wet Flashover	65 kv.
Impulse Kv., 1½x40	
MS. Positive Wave.....	150
Leakage Distance	13 in.
Mechanical Strength..	2500 lb.
Diam. of Pin Hole.....	1 3/8 in.
Min. Height of Pin.....	6 in.
No. in Std. Pkg.....	7
Packed Wt. Each.....	8 lb.

No.	L72
Rated Voltage	35 kv.
Dry Flashover	110 kv.
Wet Flashover	75 kv.
Impulse Kv., 1½x40	
MS. Positive Wave.....	175
Leakage Distance	16 1/4 in.
Mechanical Strength ..	3000 lb.
Diam. of Pin Hole.....	1 3/8 in.
Min. Height of Pin.....	7 in.
No. in Std. Pkg.....	6
Packed Wt. Each.....	12 1/2 lb.

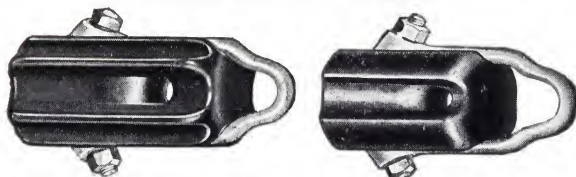
No.	L75
Rated Voltage	45 kv.
Dry Flashover	125 kv.
Wet Flashover	85 kv.
Impulse Kv., 1½x40	
MS. Positive Wave.....	200
Leakage Distance	21 in.
Mechanical Strength ..	3000 lb.
Diam. of Pin Hole.....	1 3/8 in.
Min. Height of Pin.....	8 in.
No. in Std. Pkg.....	3
Packed Wt. Each.....	14 1/2 lb.

PINCO SUSPENSION INSULATORS

Cat. No.	L1510
Dry Flashover	60000 volts
Wet Flashover	35000 volts
M. & E. Rating.....	10000 lbs.
Leakage Distance	7 in.
No. in Standard Package.....	12
Net Weight Each.....	5 lbs.
Packed Weight each.....	6 1/2 lbs.

JOSLYN PORCELAIN STRAIN INSULATORS

STRAIN CLEVIS CHART



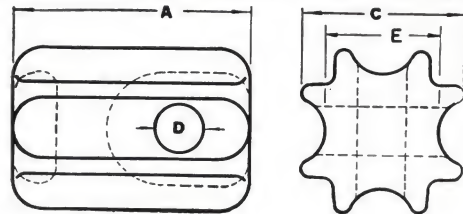
No. L289 Insulator with No. J791 Clevis

No. M506 Insulator with No. J790 Clevis

Insulator No.	Use with Clevis Number				
	Light Type	Heavy Type	Barnack Type	Flexible Type	Extra Heavy
M502	J703	J723			
M504	J705	J725	J900		
M506	J711	J731	J902	J795 (A&B)	J790
L287	J703	J723	J900		
L284	J706	J726	J900	J795 (A&B)	
L289	J712	J732	J902	J795 (A&B)	J791
L1287	J703	J723	J900		
L1284	J705	J725	J900		
L1289	J709	J729	J902	J795 (A&B)	J791

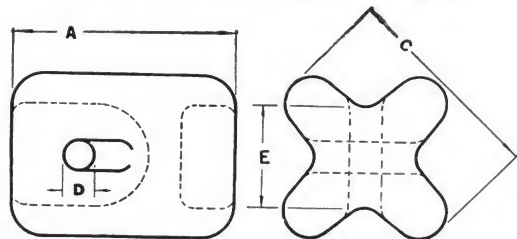
JOSLYN PORCELAIN STRAIN INSULATORS

MULTI-FIN TYPE—WET PROCESS ONLY



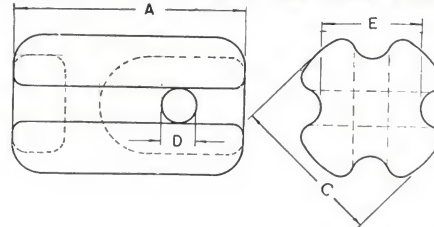
Cat. No.	Dimensions, Inches				Std. Pkg.	Net Wt. Lbs., Each	Packed Wt. Lbs., Each
	A	C	D	E			
L287	3 5/8	2 1/2	3/4	1 3/4	72	7/8	1
L284	5 1/2	3 3/4	1	1 11/8	25	2 1/4	2 5/8
L289	6 7/8	3 1/2	1	2 3/8	20	3 3/8	4

X TYPE—WET PROCESS ONLY



Cat. No.	Dimensions, Inches				Std. Pkg.	Net Wt. Lbs., Each	Packed Wt. Lbs., Each
	A	C	D	E			
L1287	3 1/2	3 3/4	3/4	1 5/8	72	1	1 1/4
L1284	4	3 5/8	7/8	1 11/8	50	1 1/2	1 3/4
L1289	6 7/8	4 3/4	1	2	20	4	4 1/2

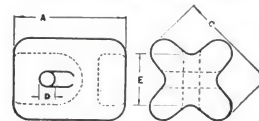
STANDARD TYPE—WET OR DRY PROCESS



Cat. No.	Dimensions, Inches				Std. Pkg.	Net Wt. Lbs., Each	Packed Wt. Lbs., Each
	A	C	D	E			
L502	3 5/8	2 1/4	5/8	1 1/2	98	3/4	7/8
L504	4	2 7/8	7/8	1 11/8	72	1 1/4	1 1/2
L506	5 1/2	3 11/8	1	2 7/8	25	3	3 3/4

Prices on request.

No. L1200 SERIES



Made by Wet Plastic Porcelain Process. Standard glaze mahogany brown color.

Cat. No.	L1287	L1284	L1289
Rated Voltage	2200	4400	6600
Dry Flashover	30000	35000	40000
Wet Flashover	15000	18000	21000
Mechanical Strength ..	10000	12000	20000
Max. Cable Size.....	1/2 in.	5/8	3/4
A, Overall Length	3 1/2	4	6 7/8
C, Maximum Section.....	3 1/4	3 5/8	4 3/4
D, Diam. of Hole.....	3/4	7/8	1
E, Minimum Section.....	1 5/8	1 11/8	2
No. in Std. Pkg.....	72	50	20
Packed Wt. Each.....	1 1/4	1 3/4	4 1/2

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

SCREW TYPE ANCHORS



The Screw Type Anchor has a forged eye with 3 circular grooves. When used with a single guy, the load is centralized in the center groove; used with 2 guys the load is divided uniformly on the outer grooves. The eye will accommodate a 1¼-inch bar used to twist the anchor into the earth.

Cat. No.	Diameter Wing Inches	Diameter Rod Inches	Length Feet	Wt. Lbs. Per 100
J6524	4	¾	4½	765
J6526	6	¾	5½	1065
J6528	8	1	5½	2016
J6530	10	1¼	5½	3025
J6550	10	1¼	8	4275

THIMBLEYE THREADED ANCHOR RODS

Length of Thread 3½ Inches



Thimbleye Rods

Cat. No.	Size In. Ft.	Ultimate Strength Lbs. Min.	Standard Bundles	Wt. Lbs. Per 100
J7405	½ x 5	10,000	10	350
J7406	½ x 6	10,000	10	410
J7407	½ x 7	10,000	10	470
J7415	¾ x 5	16,000	10	550
J7416	¾ x 6	16,000	10	650
J7417 [▲]	¾ x 7	16,000	10	750
J7418 [▲]	¾ x 8	16,000	10	850
J7427	¾ x 7	25,000	5	1090
J7428 [▲]	¾ x 8	25,000	5	1240
J7429 [▲]	¾ x 9	25,000	5	1390
J7430 [▲]	¾ x 10	25,000	5	1540
J7437	1 x 7	40,000	3	1970
J7438 [▲]	1 x 8	40,000	3	2250
J7439 [▲]	1 x 9	40,000	3	2530
J7440 [▲]	1 x 10	40,000	3	2810

THIMBLEYE THREADED ANCHOR RODS

Length of Thread 3½ Inches



Twineye Rods

Cat. No.	Size In. Ft.	Ultimate Strength Lbs. Min.	Standard Bundles	Wt. Lbs. Per 100
J7516 [▲]	¾ x 6	16,000	5	660
J7517 [▲]	¾ x 7	16,000	5	760
J7518 [▲]	¾ x 8	16,000	5	860
J7527	¾ x 7	25,000	5	1110
J7528 [▲]	¾ x 8	25,000	5	1260
J7529 [▲]	¾ x 9	25,000	5	1410
J7530 [▲]	¾ x 10	25,000	5	1560
J7537	1 x 7	40,000	3	2020
J7538 [▲]	1 x 8	40,000	3	2280
J7539 [▲]	1 x 9	40,000	3	2540
J7540 [▲]	1 x 10	40,000	3	2820

[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

THIMBLEYE THREADED ANCHOR RODS

Length of Thread 3½ Inches



Tripleye Rods

Cat. No.	Size In. Ft.	Ultimate Strength Lbs. Min.	Standard Bundles	Wt. Lbs. Per 100
J7327	¾ x 7	25,000	5	1110
J7328	¾ x 8	25,000	5	1260
J7329	¾ x 9	25,000	5	1410
J7330	¾ x 10	25,000	5	1560
J7337	1 x 7	40,000	3	2020
J7338	1 x 8	40,000	3	2280
J7339	1 x 9	40,000	3	2540
J7340	1 x 10	40,000	3	2820
J7350	1¼ x 10	54,000	3	4370
J7352	1¼ x 12	54,000	3	5210

GUY ATTACHMENTS



No. J6505



No. J6500



No. J6502

These Guy Attachments are all sturdy enough to shear the bolts used to fasten them to the pole.

Two-bolt attachments such as the No. J6505 are used on steep guys. Wherever possible, use these attachments under the head of a machine bolt. When used under the nut where the load bears on the threaded portion of the bolt, there will be some loss in the shearing strength of the bolt.

One-Bolt Guy Attachments

Cat. No.	Size, Inches Steel In.	Mounting Bolt Hole	Wt. Lbs. Per 100
J6502 [▲]	2 x 1½	1½	77
J6506	2 x 1¼	1½	154

Two-Bolt Guy Attachments

J6505	2 x 1¼	1½ & 1½	200
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Drop Forged Angle Thimbleyes

J6500 [▲]	1½	113
J6501	1½	113

[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

COPPERWELD GROUND RODS AND GROUNDING WIRE CLAMPS



Copperweld Ground Rod is non-rusting. Its heavy exterior layer of pure copper is inseparably molten-welded to the steel core, assuring dependability and long life.

The rod is rigid and easy to drive. The core, of specially selected steel, provides "stiffness" sufficient for driving in any soil.

The Clamps eliminate the need for soldered connections and provide dependable electrical and mechanical connections between the grounding wires and the ground rods.

Copperweld Ground Rods

Cat. No.	Size In.	Std. Ft.	Wt. Lbs. per 100	Cat. No.	Size In.	Std. Ft.	Wt. Lbs. per 100
J8315	3/8x5	10	200	J8347	3/4x7	10	1085
J8316	3/8x6	10	240	J8348	3/4x8	5	1240
J8287	3/8x7	10	280	J8349	3/4x9	5	1395
J8288	3/8x8	10	320	J8350	3/4x10	5	1550
J8325	1/2x5	10	340	J8351	3/4x11	5	1705
J8326	1/2x6	10	410	J8352	3/4x12	5	1860
J8327	1/2x7	10	480	J8353	3/4x13	5	2015
J8328	1/2x8	10	550	J8354	3/4x14	5	2170
J8329	1/2x9	10	615	J8355	3/4x15	5	2425
J8330	1/2x10	10	685	J8356	3/4x16	5	2580
J8331	1/2x11	10	755	J8357	3/4x17	5	2735
J8332	1/2x12	10	825	J8358	3/4x18	5	2890
J8333	1/2x13	10	895	J8359	3/4x19	5	3045
J8334	1/2x14	10	965	J8360	3/4x20	5	3100
J8334 1/2	1/2x15	10	1035	J8366	1x6	5	1650
J8335	5/8x5	10	535	J8367	1x7	5	1925
J8336	5/8x6	10	640	J8368	1x8	5	2200
J8337	5/8x7	10	750	J8369	1x9	5	2475
J8338	5/8x8	10	855	J8370	1x10	5	2750
J8339	5/8x9	10	960	J8371	1x11	5	3025
J8340	5/8x10	10	1070	J8372	1x12	5	3300
J8341-A	5/8x11	5	1180	J8373	1x13	5	3575
J8342-A	5/8x12	5	1280	J8373 1/2	1x14	5	3850
J8343	5/8x13	5	1390	J8374	1x15	5	4130
J8343 1/2	5/8x14	5	1500	J8376	1x16	5	4405
J8344	5/8x15	5	1605	J8377	1x17	5	4680
J8656	5/8x16	5	1715	J8378	1x18	5	4955
J8657	5/8x17	5	1825	J8378 1/2	1x19	5	5230
J8658	5/8x18	5	1935	J8379	1x20	5	5500
J8659	5/8x19	5	2045	J8691	1x25	5	6875
J8660	5/8x20	5	2155	J8693	1x30	5	8250
J8345	3/4x5	10	775	J8695	1x35	5	9625
J8346	3/4x6	10	930	J8697	1x40	5	11000

Copperweld Grounding Wire Clamps Type A—Cast Bronze Body

Cat. No.	With Safety Set Screw	With Square Head Bolt	Size Rod In.	Size Grounding Wires Accommodated	Wt. Lbs. per 100
J8390	J8490	3/8	6 to 12 AWG		25
J8391	J8491	1/2	4 to 10 AWG		30
J8392	J8492	5/8	3/8" Str. to 8 AWG Sol.		55
J8393	J8493	3/4	3/8" Str. to 8 AWG Sol.		75
J8395	J8495	1	4/0 Str. to 4 AWG Sol.		90
J8396	J8496	1 1/4	Pipe 4/0 Str. to 4 AWG Sol.		120

Type B—Drawn Bronze Body

J5490	J5590	3/8	6 to 14 AWG	8
J5491	J5591	1/2	2 to 10 AWG	13
J5492	J5592	5/8	2 to 8 AWG	25
J5493	J5593	3/4	2 to 8 AWG	35

*These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized MACHINE AND CROSS ARM BOLTS



3/8-Inch Diameter Minimum Breaking Strength 4500 Pounds

Cat. No.	Size In.	Lgth. Thd. per 100	Wt. Lbs.	Cat. No.	Size In.	Lgth. Thd. per 100	Wt. Lbs.
J8601	3/8x1	7/8	7.0	J8603 1/2	3/8x3 1/2	3	13.3
J8601 1/4	1 1/4	1 1/8	7.8	J8604	4	3	14.6
J8601 1/2	1 1/2	1 1/4	8.5	J8604 1/2	4 1/2	3	15.9
J8602	2	1 3/4	9.9	J8605	5	3	17.2
J8602 1/2	2 1/2	1 1/8	11.4	J8605 1/2	5 1/2	3	18.5
J8603	3	3	12.0	J8606	6	3	19.8

1/2-Inch Diameter Minimum Breaking Strength 8000 Pounds

J8701 1/4	1 1/2x1 1/4	1 1/8	16.8	J8707	1 1/2x7	5	42.5
J8701 1/2	1 1/2	1 1/4	18.1	J8708	8	6	47.0
J8702	2	1 1/2	20.8	J8709	9	6	51.5
J8702 1/2	2 1/2	1 1/4	23.5	J8710	10	6	56
J8703	3	1 1/4	26.0	J8712	12	6	65
J8703 1/2	3 1/2	1 1/4	28.6	J8714	14	6	74
J8704	4	1 1/4	29.0	J8716	16	6	83
J8704 1/2	4 1/2	3	31.3	J8718	18	6	92
J8705	5	3	33.5	J8720	20	6	101
J8706	6	3	38.0				

5/8-Inch Diameter Minimum Breaking Strength 14,000 Pounds

J8801 1/2	5/8x1 1/2	1 1/4	32	J8810	5/8x10	6	91
J8802	2	1 3/8	36	J8812	12	6	105
J8802 1/2	2 1/2	1 3/8	40	J8814	14	6	119
J8803	3	1 3/8	44	J8816	16	6	133
J8803 1/2	3 1/2	1 3/8	48	J8818	18	6	147
J8804	4	1 3/8	52	J8820	20	6	161
J8805	5	3	60	J8822	22	6	175
J8806	6	3	63	J8824	24	6	189
J8807	7	5	70	J8826	26	6	203
J8808	8	6	77	J8828	28	6	217
J8809	9	6	84				

3/4-Inch Diameter Minimum Breaking Strength 20,000 Pounds

J8901 1/2	3/4x1 1/2	1 1/4	50	J8910	3/4x10	6	149
J8902	2	1 1/2	57	J8912	12	6	170
J8902 1/2	2 1/2	1 1/2	62	J8914	14	6	191
J8903	3	1 1/4	68	J8916	16	6	212
J8903 1/2	3 1/2	1 1/4	74	J8918	18	6	233
J8904	4	1 1/4	80	J8920	20	6	254
J8905	5	3	92	J8922	22	6	275
J8906	6	3	103	J8924	24	6	296
J8907	7	5	115	J8926	26	6	317
J8908	8	6	128	J8928	28	6	338

CARRIAGE BOLTS



3/8-Inch Diameter Minimum Breaking Strength 4500 Pounds

Cat. No.	Size In.	Lgth. Thd. per 100	Wt. Lbs.	Cat. No.	Size In.	Lgth. Thd. per 100	Wt. Lbs.
J8633	3/8x3	1 1/4	12.3	J8635	3/8x5	1 3/4	17.5
J8633 1/2	3 1/2	1 1/4	13.6	J8635 1/2	5 1/2	1 3/4	18.8
J8634	4	1 1/4	14.9	J8636	6	1 3/4	20.1
J8634 1/2	4 1/2	1 1/4	16.2				

1/2-Inch Diameter Minimum Breaking Strength 8000 Pounds

J8644	1/2x4	3	29.5	J8645 1/2	1/2x5 1/2	3	35.8
J8644 1/2	4 1/2	3	31.6	J8646	6	3	37.9
J8645	5	3	33.7				

5/8-Inch Diameter

J8666	5/8x6	3	67	J8670	5/8x10	6	99
J8668	8	6	83				

*These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

DOUBLE ARMING BOLTS

Threaded Full Length



Joslyn Double Arming Bolts are made to E.E.I. Standard Specifications. When assembled, the first nut is run the entire length of the bolt to insure a free finger fit.

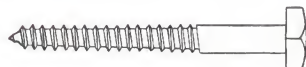
Cat. No.	Size In.	Std. Pkg. Qty.	Wt. Lbs. per 100	Cat. No.	Size In.	Std. Pkg. Qty.	Wt. Lbs. per 100
J8842	1/2x12	50	77	J8870 [▲]	5/8x20	50	186
J8844	14	50	86	J8872	22	50	201
J8846	16	50	95	J8874	24	50	215
J8848	18	50	104	J8882 [▲]	3/4x12	50	194
J8850	20	50	113	J8884 [▲]	14	50	215
J8852	22	50	122	J8886 [▲]	16	50	236
J8854	24	50	131	J8888 [▲]	18	25	257
J8862 [▲]	5/8x12	50	128	J8890 [▲]	20	25	278
J8864 [▲]	14	50	143	J8892	22	25	299
J8866 [▲]	16	50	157	J8894	24	25	320
J8868 [▲]	18	50	172	.....	....	....	....

LAG SCREWS

Fetter Drive Threads
With Upset Shoulders

Cat. No.	Size Inches	Std. Pkg. Qty.	Wt. Lbs. per 100	Cat. No.	Size Inches	Std. Pkg. Qty.	Wt. Lbs. per 100
J8742 ¹ / ₄	3/8x2 1/4	1000	7.7	J8753 ¹ / ₂	1 1/2x3	500	17.4
J8742 ¹ / ₂	2 1/2	1000	8.3	J8753 ¹ / ₂	3 1/2	500	19.6
J8743 ¹ / ₄	3	1000	9.5	J8754 ¹ / ₂	4	500	21.8
J8743 ¹ / ₂	3 1/2	1000	10.7	J8754 ¹ / ₂	4 1/2	500	24.0
J8744 ¹ / ₄	4	500	11.9	J8755 ¹ / ₂	5	250	26.2
J8744 ¹ / ₂	4 1/2	500	13.1	J8756 ¹ / ₂	6	250	30.6
J8745 ¹ / ₄	5	500	14.3	J8765 ¹ / ₂	5/8x5	250	43.2
J8746 ¹ / ₄	6	500	16.7	J8766 ¹ / ₂	6	250	50.4

Wood Screw Threads



The wood screw threads on small lags will be found a great improvement over the ordinary thread. These small screws are generally used for the attachment of various brackets to residence walls. The sharp wood screw threads are easier to start into the wood and much less liable to split the wooden walls.

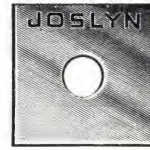
Cat. No.	Size Inches	Std. Pkg. Qty.	Wt. Lbs. per 100	Cat. No.	Size Inches	Std. Pkg. Qty.	Wt. Lbs. per 100
J8721 ¹ / ₄	1/4x1 1/4	2000	2.2	J8732	5/8x2	1000	4.4
J8721 ¹ / ₂	1 1/2	2000	2.4	J8732 ¹ / ₂	2 1/2	1000	5.2
J8722	2	2000	2.9	J8733	3	1000	6.1
J8722 ¹ / ₂	2 1/2	2000	3.4	J8733 ¹ / ₂	3 1/2	1000	6.9

[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

WASHERS



Square

Cat. No.	Size Washer	Dimensions, Inches Diam. Hole	Size Bolt	Wt. Lbs. Per 100
J1073	2 x2 x 1/8	1 1/8	1/2	13.6
J1074	2 x2 x 1/8	1 1/8	5/8	13.5
J1075	2 1/4 x2 1/4 x 1/8	1 1/8	5/8	24.2
J1076 [▲]	2 1/4 x2 1/4 x 1/8	1 1/8	3/4	24.0
J1078	3 x3 x 1/8	1 1/8	5/8 & 3/4	44.5
J1079	3 x3 x 1/4	1 1/8	5/8 & 3/4	59.0
J1077	3 1/2 x3 1/2 x 3/8	1 1/8	5/8 & 3/4	118.0
J1080	4 x4 x 1/8	1 1/8	5/8 & 3/4	81.0
J1082	4 x4 x 1/4	1 1/8	5/8 & 3/4	110.0
J1473 [▲]	4 x4 x 1/2	1 1/8	5/8 & 3/4	210.0
J1081	4 x4 x 1/2	1 1/8	1	210.0
J1083	6 x6 x 3/8	1 1/8	1	370.0

Round

Cat. No.	Outside Diam.	Dimensions, Inches Diam. Hole	Size Bolt	Wt. Lbs. per 100
J1084	1	1 1/8	3/8	1.6
*J1085	1 1/4	1 1/8	3/8	2.1
J1086	1 3/8	1 1/8	1/2	4.2
J1088	1 3/4	1 1/8	5/8	8.0
J1089	2	1 1/8	3/4	11.0

*For use under head of 3/8-inch carriage bolt.

WOOD PINS AND BRACKETS
STANDARD LOCUST INSULATOR PINS

Cat. No.	Size Pin Inches	Size Top Inches	Wt. Lbs. Per 1000
J7160	1 1/4x8	1	325
J7161	1 1/2x9	1	450

WOOD BRACKETS



Joslyn Wood Brackets are manufactured from oak, thoroughly seasoned and dried, which eliminates shrinkage after the bracket is installed. The top or threaded portion is accurately turned to size and the threads are cleanly cut. All brackets are threaded four threads to the inch, tapering 1/8 inch, to one inch in length.

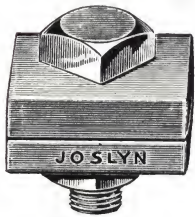
Brackets

Cat. No.	Size Inches	Wt. Lbs. Per 1000
J2550-4	1 1/2x2 x10	600
J2551-1	1 1/2x2 x12	800
J2552-3	1 1/2x2 1/4x12	825
J2553-L.D.	1 3/8x2 x12	800
J2555-W.U.	2 x2 3/4x12	1100
J2557-New W.U.	2 x2 3/4x12	1150

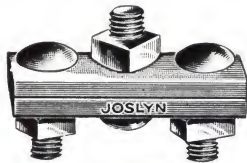
JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

GUY CLAMPS



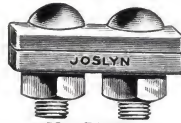
No. J1061



No. J929



No. J1033



No. J1030

No. J1061 clamp is furnished with a special square head bolt which also has a square under the head. This square under the head prevents the bolt from turning while being tightened.

The No-Slip Groove Clamp has rifled grooves rolled to fit the lay of stranded guy wire. It is standard with many power companies. Grooves will accommodate $\frac{1}{8}$ and $\frac{3}{8}$ -inch 7-wire left hand lay strand.

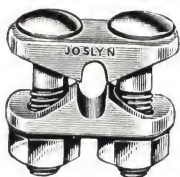
Cat. No.	Style Clamp	For Strand Size	Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100
J1061	One Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	1 $\frac{1}{2}$	100	58
J1030	Two Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	3 $\frac{3}{8}$	50	127
J929	Three Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	4	50	176
J934 [▲]	Three Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	6	25	224
J930 [▲]	3 Bolt Standard	$\frac{1}{8}$ — $\frac{3}{8}$	6	25	232
J931 [▲]	3 Bolt E.E.I. Std.	$\frac{1}{8}$ — $\frac{3}{8}$	6	25	264
J1128	Heavy Duty 3 Bolt	$\frac{3}{8}$ — $\frac{7}{8}$	6	20	364
J1121 [▲]	Heavy Duty 3 Bolt	$\frac{1}{8}$ — $\frac{1}{2}$	6	20	445
J1131	Heavy Duty 3 Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	6	20	465
J933	Four Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	8	25	360

No-Slip Groove Clamps

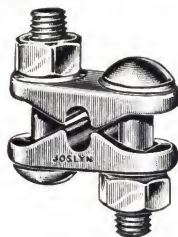
Cat. No.	Style Clamp	For Strand Size	Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100
J1031 [*]	Three Bolt	$\frac{1}{8}$ — $\frac{3}{8}$	4	50	156
J1033 [*]	3 Bolt Standard	$\frac{1}{8}$ — $\frac{3}{8}$	6	25	240
J1032 [*]	3 Bolt Heavy Duty	$\frac{1}{8}$ — $\frac{3}{8}$	6	25	272

^{*}Center bolt reversible.

TUBASE GUY CLIPS



Type A



Type B

Made of drop forged steel. The two square shouldered bolts are a press fit in the square holes, making a rigid assembly; two clamping members, two nuts.

Type A is standard, type B can be had on special order. This clip may be installed either way on the strand. It is the only clip which develops the full strength of the wire.

Type A			Type B		
Cat. No.	Strand In.	Wt. Lbs. Per 100	Cat. No.	Strand In.	Wt. Lbs. Per 100
J3014	$\frac{1}{4}$	45	J5014	$\frac{1}{4}$	45
J3056	$\frac{1}{8}$	57	J5056	$\frac{1}{8}$	57
J3038	$\frac{3}{8}$	80	J5038	$\frac{3}{8}$	80
J3022	$\frac{1}{2}$	80	J5022	$\frac{1}{2}$	80

[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

WIRE ROPE CLIPS

Made with malleable iron base and steel bolts.



Cat. No.	Strand Inches	Wt. Lbs. Per 100
J1048	$\frac{1}{4}$	14
J1049	$\frac{1}{8}$	19
J1050	$\frac{3}{8}$	30
J1051	$\frac{1}{2}$	48
J1052	$\frac{5}{8}$	60
J1053	$\frac{3}{4}$	90
J1054	$\frac{7}{8}$	140
J1055	1	190

THIMBLEYE BOLTS

For attaching guys to poles. Eliminate the use of strain plates, guy hooks and extra strand. Bolts 10 inches and shorter have 4 inches of threads; longer bolts, 6 inches of threads.



Drop Forged Straight Bolts

% - Inch Diameter*			% - Inch Diameter*		
Cat. No.	Length Inches	Wt. Lbs. Per 100	Cat. No.	Length Inches	Wt. Lbs. Per 100
J8049	6	104	J8060 [▲]	8	164
J8050 [▲]	8	121	J8061 [▲]	10	188
J8051 [▲]	10	138	J8062 [▲]	12	212
J8052 [▲]	12	155	J8063	14	236
J8053	14	172	J8064	16	260
J8054	16	189	J8065	18	284
J8055	18	206	J8066	20	308
J8056	20	223	J8067	22	332
			J8068	24	356

Drop Forged 45° Angle Bolts

Drop Forged 45° Angle Bolts			Drop Forged 45° Angle Bolts		
Cat. No.	Length Inches	Wt. Lbs. Per 100	Cat. No.	Length Inches	Wt. Lbs. Per 100
J8149	6	108	J8159	6	146
J8150 [▲]	8	125	J8160	8	170
J8151 [▲]	10	142	J8161 [▲]	10	194
J8152 [▲]	12	159	J8162 [▲]	12	218
J8153	14	176	J8163 [▲]	14	242
J8154	16	193	J8164	16	266
J8155	18	210	J8165	18	290
J8156	20	227	J8166	20	314

THIMBLEYE BOLTS



The shoulder type improved eyebolt for down guys is superior mechanically to the standard type. The shoulder prevents the curved portion being drawn into the pole and crushing the fibers. Eye will accommodate $\frac{1}{2}$ -inch maximum diameter strand.

Shoulder Type Straight Bolts

% - Inch Diameter*			% - Inch Diameter*		
Cat. No.	Length Inches	Wt. Lbs. Per 100	Cat. No.	Length Inches	Wt. Lbs. Per 100
J8406	6	125	J8006	6	125
J8408	8	142	J8008	8	142
J8410	10	158	J8010	10	158
J8412	12	175	J8012	12	175
J8414	14	191	J8014	14	191
J8416	16	208	J8016	16	208
J8418	18	224	J8018	18	224
J8420	20	241	J8020	20	241

Shoulder Type 45° Angle Bolts

Shoulder Type 45° Angle Bolts			Shoulder Type 45° Angle Bolts		
Cat. No.	Length Inches	Wt. Lbs. Per 100	Cat. No.	Length Inches	Wt. Lbs. Per 100
J8406	6	125	J8006	6	125
J8408	8	142	J8008	8	142
J8410	10	158	J8010	10	158
J8412	12	175	J8012	12	175
J8414	14	191	J8014	14	191
J8416	16	208	J8016	16	208
J8418	18	224	J8018	18	224
J8420	20	241	J8020	20	241

Lift plates should be used on angle thimbleye bolts where loads are excessive and guys are steep.

^{*}Minimum breaking strength, 14,000 pounds.

[†]Minimum breaking strength, 20,000 pounds.

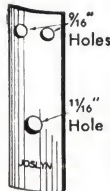
[▲]These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

LIFT PLATES FOR ANGLE THIMBLEYE BOLTS

Used with ½-inch lag screws to increase load capacity of angle thimbleye bolts. All plates are 2½x7 inches curved on a 3-inch radius. Plates for ⅝-inch eyebolts have ⅜-inch round holes; plates for ¾-inch eyebolts have 1x⅜-inch oval holes.

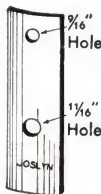


3-HOLE PLATES

Cat. No.		Thick- ness, In.		Wt. Lbs. Per 100
For ⅝-In. Eyebolts	For ¾-In. Eyebolts	For ⅝-In. Eyebolts	For ¾-In. Eyebolts	
J7885	J7889	⅜	⅜	90
J7886	J7890	¼	¼	123
J7887	J7891	⅜	⅜	141

2-HOLE PLATES

Cat. No.		Thick- ness, In.		Wt. Lbs. Per 100
For ⅝-In. Eyebolts	For ¾-In. Eyebolts	For ⅝-In. Eyebolts	For ¾-In. Eyebolts	
J7896	J7893	⅜	⅜	90
J7897	J7894	¼	¼	123

DROP FORGED EYEBOLTS
Length Measured Under Eye½-Inch Diameter
Minimum Breaking Strength 8,000 Pounds

Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100	Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100
J9305	5	4	100	55	J9313	13	6	100	99
J9307	7	5	100	66	J9315	15	6	100	110
J9309	9	6	100	77	J9317	17	6	100	121
J9311	11	6	100	88	J9319	19	6	100	132

⅝-Inch Diameter
Minimum Breaking Strength 14,000 Pounds

J9405	5	4	100	102	J9414	14	6	50	167
J9406	6	5	100	109	J9416	16	6	50	181
J9408	8	6	100	123	J9418	18	6	50	196
J9410	10	6	50	138	J9420	20	6	50	210
J9412	12	6	50	152	J9422	22	6	50	225

¾-Inch Diameter
Minimum Breaking Strength 20,000 Pounds

J9506	6	5	50	174	J9514	14	6	25	252
J9508	8	6	50	193	J9516	16	6	25	271
J9510	10	6	50	213	J9518	18	6	25	290
J9512	12	6	50	232					

DROP FORGED DOUBLE ARMING EYEBOLTS
Length Measured Under Eye⅝-Inch Diameter
Minimum Breaking Strength 14,000 Pounds

Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100	Cat. No.	Lgth. In.	Lgth. T'rd.	Std. Pkg.	Lbs. Per 100
J9614	14	12	50	192	J9618	18	16	50	225
J9616	16	14	50	209					

¾-Inch Diameter
Minimum Breaking Strength 20,000 Pounds

J9634	14	12	25	268	J9638	18	16	25	308
J9636	16	14	25	288					

▲These items are R.E.A. Standard.

JOSLYN POLE LINE MATERIAL

Hot Dip Galvanized

DROP FORGED TURNBUCKLES



The body of this turnbuckle is a single piece forging. Furnished in 3 types of assemblies.

Size Bolt and Opening Inches	Type of Assembly			Weight Pounds Per 100
	Eye & Eye Cat. No.	Eye & Hook Cat. No.	Eye & Clevis Cat. No.	
⅝x6	J1227	J1026	J1312	79
½x6	J1228	J1021	J1313	168
½x9	J1229	J1022	J1314	190
½x12	J1230	J1023	J1315	320
⅝x9	J1231	J1024	J1316	320
⅝x12	J1232	J1025	J1317	395
¾x12	J1234	J1027	J1318	550

Strength in Pounds

Size	Inches	⅝	½	⅝	¾
Eye and Eye	pounds	4080	7560	12120	18120
Eye and Hook	pounds	2290	3670	5400	7530
Eye and Clevis	pounds	4080	7560	12120	18120

GUY HOOKS

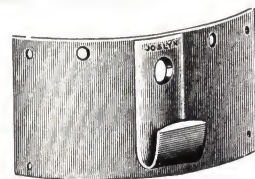
Used to prevent the strand from slipping on the pole where the pull is exerted at a sharp angle.



Cat. No.	Size In.	No. of Bolts	Wt. Lbs. Per 100
J1016	1¼x¼x3	1	30
J1017	1½x¾x3½	1	55
J1018	1½x¾x6	2	81
J1019	1¾x¾x4	1	69

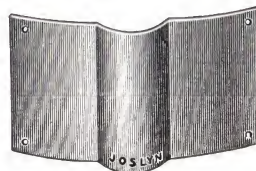
GUY HOOK STRAIN PLATES

The Guy Hook Strain Plate has the double function of preventing the guy strand from slipping down the pole and biting into the pole. The guy hook is firmly welded to the plate.



Cat. No.	Size In.	Standard Package	Wt. Lbs. Per 100
J6577	4 x 8 x No. 14 Ga.	100	130

MOULDING STRAIN PLATES



Used to prevent the guy strand from cutting or crushing the ground wire moulding. This plate is formed to fit over the N.E.L.A. standard 1-inch ground wire moulding.

Cat. No.	Size In.	Standard Package	Wt. Lbs. Per 100
J6576	4 x 8 x No. 14 Ga.	200	78

▲These items are R.E.A. Standard.

JOSLYN GALVANIZED STEEL STRAND

Galvanized Steel Strand used in pole line construction is made in the following grades:

Standard Strand, single or double galvanized.

Siemens-Martin Strand.

High Strength Strand.

Extra High Strength Strand.

Specification and Utilities Strand.

All strand is galvanized by the most modern methods. Rigid inspections and manufacturing controls insure the highest quality of steel strand and uniformity of zinc coatings.

Hot dip galvanized strand is produced by an entirely new process in which a stream of molten zinc flows over the wire in a hermetically sealed box. The resulting coating is free of the con-

taminations present in coatings produced by older methods.

Electrolytically galvanized strand is coated by the Bethanizing process which produces a zinc coating of unusually high purity. Heavy thicknesses of zinc, as listed below, are possible with this method.

7-WIRE STRAND



7-Wire Regular Strand

Diam. Strand In.	Diam. Wires In.	Weight Pounds per 1000 Feet	Strength in Pounds			
			Standard Strand	Siemens- Martin	High Strength	Extra High Str'gth
$\frac{3}{8}$	.062	72.9	1150	1900	2850	3990
$\frac{1}{4}$	.080	121.	1900	3150	4750	6650
$\frac{5}{16}$	.093	164.	2570	4250	6400	8950
$\frac{3}{8}$	.104	205.	3200	5350	8000	11200
$\frac{1}{2}$	.120	273.	4250	6950	10800	15400
$\frac{5}{8}$	.145	399.	5700	9350	14500	20800
$\frac{3}{4}$	.165	517.	7400	12100	18800	26900

7-Wire Specification Strand

Diam. Strand Inches	Nominal Designation Pounds	Diam. Wires Inches	Weight Pounds per 1000 Feet	Breaking Strength Pounds
$\frac{3}{8}$	2200	.065	80.3	2400
$\frac{5}{16}$	4000	.093	164.	4600
$\frac{3}{8}$	6000	.109	225.	6000
$\frac{1}{2}$	10000	.120	273.	11500
$\frac{5}{8}$	16000	.145	399.	18000
$\frac{3}{4}$	25000	.165	517.	25000

Coating Weight 7-Wire Bethanized Strand

Diam. Strand Inches	Weight Ounces, Per Sq. Ft. of Surface		
	Coating A	Coating B	Coating C
$\frac{3}{8}$	0.50	1.00	1.50
$\frac{1}{4}$	0.60	1.20	1.80
$\frac{5}{16}$	0.70	1.40	2.10
$\frac{3}{8}$	0.80	1.60	2.40
$\frac{1}{2}$	0.85	1.70	2.55
$\frac{5}{8}$	0.90	1.80	2.70
$\frac{3}{4}$	0.90	1.80	2.70

3-WIRE STRAND



3-Wire Regular Strand

Nom. Strand In.	Actual Diam. In.	Diam. Wire In.	Weight Pounds Per 1000 Feet	Strength in Pounds			
				Stand- ard Strand	Siemens- Martin	High Str'th	Extra High Str'th
$\frac{3}{8}$	.1724	.080	51.9	814	1350	2036	2850
$\frac{1}{4}$	.2004	.093	70.1	1100	1821	2743	3836
$\frac{5}{16}$	.2241	.104	87.6	1371	2293	3429	4800
$\frac{3}{8}$	.2586	.120	116.7	1821	2979	4629	6600
$\frac{1}{2}$	.3124	.145	170.6	2443	4007	6214	8914
$\frac{5}{8}$	.3555	.165	220.3	3171	5186	8057	11528
$\frac{3}{4}$	.4460	.207	347	4972	8186	12686	18172

3-Wire Utilities Strand

Nom. Strand Inches	Actual Diam. Inches	Diam. Wires Inches	Weight Pounds Per 1000 Feet	Breaking Strength Pounds
$\frac{1}{4}$	.2585	.120	116.7	3150
$\frac{5}{16}$	.2586	.120	116.7	4500
$\frac{3}{8}$	.3124	.145	170.6	6500
$\frac{1}{2}$	.3555	.165	220.3	8500

Coating Weight 3-Wire Bethanized Strand

Diam. Strand Inches	Weight Ounces, Per Sq. Ft. of Surface		
	Coating A	Coating B	Coating C
$\frac{3}{8}$	0.60	1.20	1.80
$\frac{1}{4}$	0.70	1.40	2.10
$\frac{5}{16}$	0.80	1.60	2.40
$\frac{3}{8}$	0.85	1.70	2.55
$\frac{1}{2}$	0.90	1.80	2.70
$\frac{5}{8}$	0.90	1.80	2.70
$\frac{3}{4}$	1.00	2.00	3.00

WOOD SCREWS

IRON WOOD SCREWS



Flat Head, Bright

Round Head, Blued or
Nickel Plated

Oval Head, Nickel Plated

Put up in standard packages of one gross of each size except larger sizes, mostly 3½ inch and over, which are packed ½ and ¼ gross in paper box, according to size.

PRICE PER GROSS

No.	Length, Inches																		
	¼	⅜	½	⅝	¾	7⁄8	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3½	4	4½	5
0	\$0.30	\$0.32	\$0.34																
1	.30	.32	.34																
2	.30	.32	.34	\$0.36	\$0.38														
3	.32	.34	.36	.38	.40	\$0.44	\$0.46												
4	.32	.34	.36	.38	.40	.46	.48	\$0.52	\$0.60										
5		.34	.36	.40	.42	.48	.50	.54	.62										
6		.38	.40	.44	.46	.52	.54	.58	.66	\$0.72	\$0.78	\$0.82	\$0.90						
7		.42	.44	.48	.50	.56	.58	.62	.70	.78	.84	.88	.96						
8		.46	.48	.52	.54	.60	.62	.66	.75	.84	.90	.95	1.05	\$1.10	\$1.20				
9			.52	.56	.58	.64	.66	.70	.76	.86	.96	1.10	1.15	1.25	1.32	1.42	\$1.90		
10			.56	.60	.62	.68	.70	.76	.80	.92	1.05	1.20	1.25	1.35	1.45	1.55	2.10		
11				.64	.66	.72	.75	.84	.92	1.05	1.15	1.30	1.35	1.50	1.65	1.75	2.30	\$2.50	
12				.68	.70	.76	.80	.92	1.05	1.15	1.30	1.35	1.50	1.65	1.75	2.30	\$2.50		
14					.90	1.05	1.10	1.25	1.35	1.50	1.60	1.75	1.85	2.05	2.25	2.80	3.00	\$3.30	\$3.65
16							1.40	1.55	1.70	1.90	2.00	2.20	2.40	2.60	2.80	3.35	3.55	3.85	4.20
18								1.85	2.05	2.30	2.40	2.65	3.00	3.20	3.40	3.95	4.20	4.50	5.00
20									2.40	2.70	2.80	3.10	3.60	3.80	4.00	4.55	4.95	5.25	6.00
24															4.95	5.70	6.60	7.10	7.60

BRASS WOOD SCREWS



Flat Head



Round Head



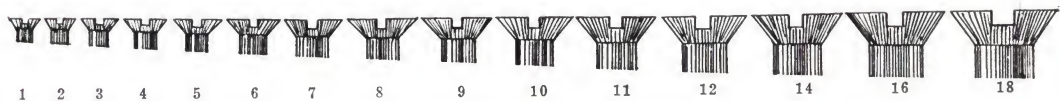
Oval Head

PRICE, PER GROSS

No.	Length, Inches														
	¼	⅜	½	⅝	¾	7⁄8	1	1¼	1½	1¾	2	2¼	2½	3	3½
0	\$0.64	\$0.66													
1	.66	.70	\$0.78												
2	.70	.76	.84	\$0.90	\$1.00										
3	.76	.82	.90	1.00	1.10										
4	.86	.90	.98	1.10	1.20	\$1.40	\$1.50								
5		.98	1.10	1.25	1.35	1.55	1.65								
6		1.10	1.25	1.40	1.50	1.75	1.85	\$2.20	\$2.45						
7			1.45	1.60	1.75	2.00	2.15	2.50	2.80						
8			1.65	1.80	2.00	2.25	2.40	2.80	3.20	\$3.65	\$4.00				
9				2.05	2.25	2.50	2.70	3.20	3.60	4.10	4.50				
10					2.30	2.50	2.75	3.00	3.60	4.00	4.60	5.10	\$5.60	\$6.20	
11						2.75	3.10	3.35	4.00	4.55	5.20	5.75	6.35	7.00	
12						3.10	3.45	3.80	4.45	5.10	5.85	6.55	7.15	7.80	\$9.15
14								4.90	5.75	6.50	7.40	8.15	9.00	9.85	11.20
16												10.30	11.35	12.50	14.40
18												12.45	13.60	15.10	17.65

Put up in standard packages of 1 gross of each size.

ACTUAL SIZE OF WOOD SCREWS



ACTUAL SIZE IN DECIMALS OF AN INCH

.0710 .0842 .0973 .1105 .1236 .1368 .1500 .1631 .1763 .1894 .2026 .2158 .2421 .2684 .2947

NEAREST COMMON FRACTION EQUIVALENT

¼ ⅜ ½ ¾ 1 1½ 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

STEEL MACHINE SCREWS

SLOTTED HEAD



Flat Head



Oval Head



Round Head



Fillister Head

Lgth. In.	Price per Gross Diameter of Screw					
	2	3	4	6	8	10
	Coarse Threads per Inch					
	56	48	40	32	32	24
Fine Threads per Inch						
						32
1/8	\$0.41	\$0.42	\$0.43	\$0.47		
3/16	.42	.43	.44	.48	\$0.60	\$0.67
1/4	.43	.44	.45	.49	.62	.69
5/16	.44	.45	.46	.50	.64	.71
3/8	.45	.46	.47	.51	.66	.73
7/16	.46	.47	.48	.52	.68	.75
1/2	.47	.48	.49	.54	.70	.77
5/8	.49	.51	.52	.57	.74	.82
3/4	.51	.53	.55	.60	.77	.87
7/8			.57	.65	.81	.92
1			.61	.70	.88	.98
1 1/8				.80	.96	1.06
1 1/4			.80	.90	1.04	1.15
1 1/2			.90	1.00	1.16	1.30
1 3/4				1.10	1.28	1.45
2				1.20	1.40	1.60
2 1/4					1.55	1.80
2 1/2					1.70	2.00
2 3/4					1.85	2.20
3					2.00	2.40

Lgth. In.	Diameter of Screw				
	12	1/4	3/8	1/2	5/8
	Coarse Threads per Inch				
	24	20	18	16	13
1/4	\$0.83				
5/16		\$1.10			
3/8	.89	1.13	\$1.70		
7/16		1.16			
1/2	.95	1.20	1.80	\$2.75	
5/8	1.02	1.28	1.95	2.95	
3/4	1.08	1.36	2.05	3.10	
7/8	1.14	1.45	2.20	3.30	
1	1.20	1.55	2.35	3.50	\$7.20
1 1/8		1.65			
1 1/4	1.40	1.75	2.65	3.90	7.90
1 1/2	1.55	1.95	3.00	4.30	8.60
1 3/4		2.15	3.35	4.70	9.40
2	1.85	2.35	3.70	5.10	10.20
2 1/4		2.55			
2 1/2		2.80	4.40	6.20	12.10
2 3/4		3.10			
3		3.40	5.20	7.50	

Lengths, diameters, and threads not listed are considered special, but are furnished to the extent that they may be in stock, or when required in sufficient quantities of a size to warrant being made to order.

*Made in flat heads only.

BRASS MACHINE SCREWS

SLOTTED HEAD



Flat Head



Oval Head



Round Head



Fillister Head

Lgth. In.	Price per Gross Diameter of Screw					
	2	3	4	6	8	10
	Coarse Threads per Inch					
	56	48	40	32	32	24
Fine Threads per Inch						
						32
1/8	\$0.48		\$0.57	\$0.70		
3/16	.50	\$0.54	.60	.75	\$1.10	
1/4	.52	.57	.63	.80	1.18	\$1.48
5/16	.54	.60	.67	.85	1.26	1.56
3/8	.57	.63	.71	.90	1.34	1.65
7/16	.60	.66	.75	.96	1.42	
1/2	.63	.69	.79	1.02	1.50	1.85
5/8	.69	.75	.87	1.14	1.65	2.10
3/4	.75	.82	.95	1.26	1.80	2.30
7/8			1.05	1.38	1.95	2.50
1			1.15	1.50	2.10	2.75
1 1/4			1.45	1.85	2.40	3.30
1 1/2				2.10	2.80	3.75
1 3/4					3.20	4.20
2				2.70	3.60	4.60
2 1/2					4.40	5.50
3					5.20	6.50

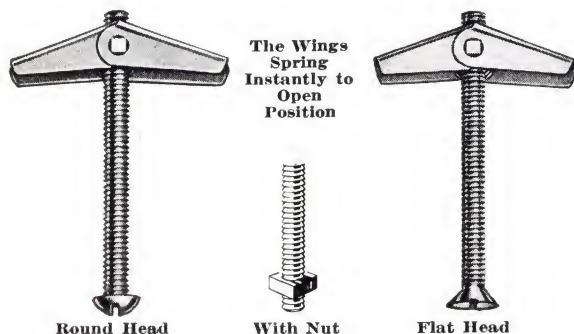
Lgth. In.	Diameter of Screw				
	12	1/4	3/8	1/2	5/8
	Coarse Threads per Inch				
	24	20	18	16	13
3/8	\$2.20	\$3.10	\$5.30		
1/2	2.50	3.50	5.90	\$9.40	
5/8	2.80	3.90	6.50		
3/4	3.00	4.10	7.10	11.00	
7/8		4.50			
1	3.60	4.90	8.30	12.70	\$27.00
1 1/4	4.20	5.60	9.50	14.50	30.00
1 1/2	4.70	6.30	10.60	16.10	33.00
1 3/4		7.00			
2	5.90	7.80	12.80	19.40	39.00
2 1/2		9.40	15.40	22.90	
3		11.00	18.00	26.50	

Lengths, diameters, and threads not listed are considered special, but are furnished to the extent that they may be in stock, or when required in sufficient quantities of a size to warrant being made to order.

*Made in flat heads only.

ACKERMAN-JOHNSON TOGGLE BOLTS

For Fastenings to Tile, Hollow or Thin Walls,
Sheet Metal, etc.



Spring-Wing toggle bolts are of latest pattern and strongest possible construction.

All sizes listed are threaded full length with American standard machine screw thread.

To determine shortest usable length add thickness of work and of wall plus $\frac{1}{2}$ the spread of wings plus $\frac{1}{4}$ -inch.

Orders should specify the style of bolt, its diameter and length.

Also furnished with special finishes, or in brass or with steel head and brass bolt. Prices on request.

Diam. & Lgth. of Bolt Inches	Standard Thread	Min. Dia. of Hole req'd, Inches	Spread of Wings, Inches	Quan. per Std. Pkg.	Shpg. Wt. Lbs. per 100	Per 100 All Steel
$\frac{1}{8}$ x 2	6-32	$\frac{3}{8}$	$1\frac{7}{8}$	100	$1\frac{1}{4}$	\$8.00
$\frac{1}{8}$ x 2 $\frac{1}{2}$					$1\frac{1}{2}$	9.00
$\frac{1}{8}$ x 3					$1\frac{1}{2}$	9.00
$\frac{1}{8}$ x 4					$1\frac{7}{8}$	10.00
$\frac{3}{16}$ x 2 $\frac{1}{2}$	8-32	$\frac{1}{2}$	$1\frac{7}{8}$	100	$2\frac{1}{8}$	9.50
$\frac{3}{16}$ x 3					$2\frac{1}{4}$	9.50
$\frac{3}{16}$ x 3 $\frac{1}{2}$					$2\frac{1}{2}$	10.00
$\frac{3}{16}$ x 4					$2\frac{3}{4}$	10.00
$\frac{3}{8}$ x 2	$\frac{10}{16}$ -24	$\frac{1}{2}$	$1\frac{7}{8}$	50	$3\frac{1}{4}$	8.50
$\frac{3}{8}$ x 2 $\frac{1}{2}$					$3\frac{1}{2}$	9.50
$\frac{3}{8}$ x 3					$3\frac{3}{4}$	9.50
$\frac{3}{8}$ x 3 $\frac{1}{2}$					4	10.00
$\frac{3}{8}$ x 4	$\frac{1}{4}$ "-20	$\frac{11}{16}$	$2\frac{1}{8}$	50	$4\frac{1}{2}$	10.00
$\frac{3}{8}$ x 5					$5\frac{1}{8}$	12.00
$\frac{3}{8}$ x 6					$5\frac{3}{4}$	12.50
$\frac{1}{4}$ x 2 $\frac{1}{2}$					$5\frac{7}{8}$	10.50
$\frac{1}{4}$ x 3	$\frac{1}{4}$ "-20	$\frac{11}{16}$	$2\frac{1}{8}$	50	6	10.50
$\frac{1}{4}$ x 3 $\frac{1}{2}$					$6\frac{1}{2}$	11.00
$\frac{1}{4}$ x 4					7	11.00
$\frac{1}{4}$ x 5					$8\frac{1}{4}$	14.00
$\frac{1}{4}$ x 6	$\frac{5}{16}$ "-18	$\frac{7}{8}$	$2\frac{3}{4}$	25	$9\frac{1}{4}$	15.50
$\frac{5}{16}$ x 3					10	16.00
$\frac{5}{16}$ x 4					$11\frac{1}{2}$	17.00
$\frac{5}{16}$ x 5					$13\frac{1}{2}$	21.50
$\frac{5}{16}$ x 6	$\frac{3}{8}$ "-16	1	$2\frac{7}{8}$	25	$15\frac{1}{2}$	23.00
$\frac{3}{8}$ x 3					$12\frac{1}{2}$	21.00
$\frac{3}{8}$ x 4					15	23.00
$\frac{3}{8}$ x 5					$17\frac{1}{2}$	28.50
$\frac{3}{8}$ x 6	$\frac{1}{2}$ "-13	$1\frac{1}{4}$	$4\frac{5}{8}$	25	20	30.00
$\frac{1}{2}$ x 4					30	40.50
$\frac{1}{2}$ x 6					39	59.00

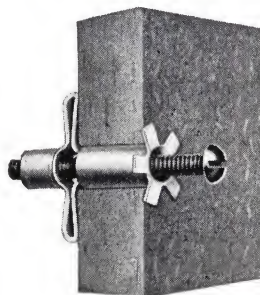
Toggle Heads Only

$\frac{1}{8}$	6-32	$\frac{3}{8}$	$1\frac{7}{8}$	Bulk or to order	$\frac{3}{4}$	7.00
$\frac{3}{16}$	8-32	$\frac{1}{2}$	$1\frac{7}{8}$		$1\frac{1}{2}$	7.50
$\frac{3}{8}$	10-24	$\frac{1}{2}$	$1\frac{7}{8}$		$1\frac{1}{2}$	7.50
$\frac{1}{4}$	$\frac{1}{4}$ "-20	$\frac{11}{16}$	$2\frac{1}{8}$		$3\frac{1}{4}$	8.50
$\frac{5}{16}$	$\frac{5}{16}$ "-18	$\frac{7}{8}$	$2\frac{3}{4}$		$4\frac{1}{2}$	12.00
$\frac{3}{8}$	$\frac{3}{8}$ "-16	1	$2\frac{7}{8}$		$4\frac{1}{2}$	16.00
$\frac{1}{2}$	$\frac{1}{2}$ "-13	$1\frac{1}{4}$	$4\frac{5}{8}$		$6\frac{1}{2}$	25.00

ACKERMAN-JOHNSON TOGGLE SCREW ANCHORS



For attaching fixtures of every kind to Hollow Tile — Lath — Wall Board — Gypsum (hollow or solid) — Sheet Metal, etc.



When installed with tool — a super-strong anchorage is formed to which any object may be attached with a machine screw.

List Prices Without Screws
In Steel — Cadmium Plated

For Screw Size	No. of Wings	Length to Specify	For Wall Thickness	Shpg. Wt. Lbs. Per 100	Price Per 100
Diam. of Holes to Drill, $\frac{3}{16}$ -Inch					
8x32	4	Ex. Short	0 to $\frac{3}{8}$ "	$1\frac{1}{2}$	\$12.50
8x32	2	Short	$\frac{3}{8}$ " to $\frac{5}{8}$ "	$1\frac{1}{2}$	13.00
8x32	4	Short	$\frac{3}{8}$ " to $\frac{5}{8}$ "	2	13.00
8x32	2	Long	$\frac{5}{8}$ " to $1\frac{1}{4}$ "	$2\frac{1}{4}$	13.50
8x32	4	Long	$\frac{5}{8}$ " to $1\frac{1}{4}$ "	$2\frac{1}{2}$	13.50
Diam. of Holes to Drill, $\frac{7}{16}$ -Inch					
10x24	4	Ex. Short	0 to $\frac{3}{8}$ "	$2\frac{1}{4}$	13.50
10x24	2	Short	$\frac{3}{8}$ " to $\frac{5}{8}$ "	$2\frac{1}{2}$	14.00
10x24	4	Short	$\frac{3}{8}$ " to $\frac{5}{8}$ "	$2\frac{3}{4}$	14.00
10x24	2	Long	$\frac{5}{8}$ " to $1\frac{1}{4}$ "	$3\frac{1}{4}$	14.50
10x24	4	Long	$\frac{5}{8}$ " to $1\frac{1}{4}$ "	$3\frac{1}{2}$	14.50
10x24	2	Ex. Long	$1\frac{1}{4}$ " to $1\frac{3}{4}$ "	$3\frac{3}{4}$	15.00
Diam. of Holes to Drill, $\frac{1}{2}$ -Inch					
$\frac{1}{4}$ " x 20	4	Ex. Short	0 to $\frac{1}{8}$ "	$2\frac{1}{2}$	14.50
$\frac{1}{4}$ " x 20	2	Short	$\frac{1}{8}$ " to $\frac{3}{8}$ "	$3\frac{1}{4}$	15.00
$\frac{1}{4}$ " x 20	4	Short	$\frac{1}{8}$ " to $\frac{3}{8}$ "	$3\frac{1}{4}$	15.00
$\frac{1}{4}$ " x 20	2	Long	$\frac{3}{8}$ " to $1\frac{1}{4}$ "	$4\frac{1}{4}$	15.50
$\frac{1}{4}$ " x 20	4	Long	$\frac{3}{8}$ " to $1\frac{1}{4}$ "	$4\frac{1}{4}$	15.50
$\frac{1}{4}$ " x 20	2	Ex. Long	$1\frac{1}{4}$ " to $1\frac{3}{4}$ "	$5\frac{3}{4}$	16.00

Setting Tool for No. 8x32 or No. 10x24...each \$2.50

No. $\frac{1}{4}$ " x 20each 3.00

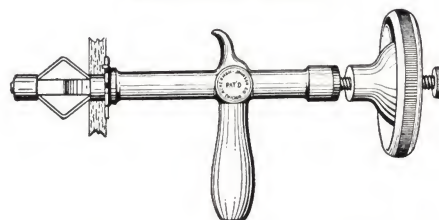
Extra Draw Spindle for No. 8x32 or

No. 10x24each .60

No. $\frac{1}{4}$ " x 20each .90

When ordering Toggle Screw Anchors, please specify from the first three columns.

SETTING TOOL



The Toggle-Screw-Anchor is easily "set" with this speedy but inexpensive tool.

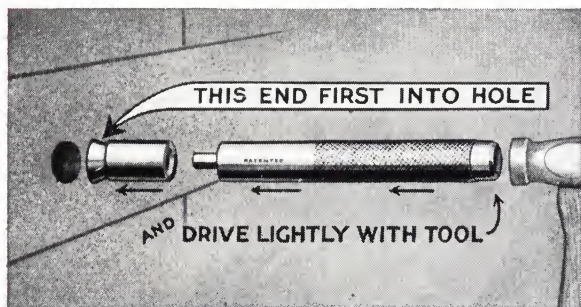
ACKERMAN-JOHNSON EXPANSIVE SCREW ANCHORS

For attaching fixtures or wiring to any hard surface as brick, concrete, stone or marble, slate, etc.



Consists of a deep nut of conical design with lead-alloy expandable sleeve; factory assembled to be handled as one piece. Threaded for machine screws or bolts.

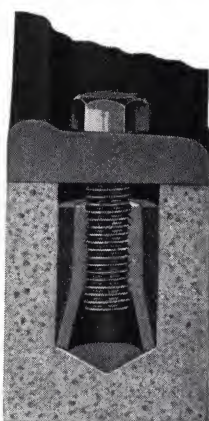
Operation



The sleeve expands over tapered formations of the nut against all sides of hole, giving perfect holding contact thruout its length and circumference. These anchors are installed completely before the work is attached. When set in good masonry their holding power will exceed the tensile strength of screws or bolts to be used with them. For any diameter of screw or bolt, specify the corresponding size and anchor from the first column of list.



Anchor Installed



Cross section of anchor installed with work attached.

Anchors — Without Screws					
Size No. and Threads Per Inch	Minimum Dimens. of Holes Required	Standard Quantity Per Box	Shpg. Wt. Lbs. Per 100	List Price Per 100	
	Diam.	Depth			
6x32	1/4"	3/8"	50-100	7/8	\$6.00
8x32	1/8"	1/2"	50-100	1 1/3	6.50
10x24	3/8"	5/8"	50-100	2 3/8	7.50
12x24	7/8"	3/4"	50-100	3 3/4	9.50
1/4"x20	1/2"	7/8"	50-100	5 1/4	11.00
5/16"x18	5/8"	1"	50-100	9	15.00
3/8"x16	3/4"	1 1/4"	50-100	14 1/4	20.00
7/8"x14	7/8"	1 1/2"	50-100	21 3/4	26.00
1/2"x13	7/8"	1 1/2"	50-100	21 1/2	26.00
5/8"x11	1 1/8"	2"	50-100	46	50.00
3/4"x10	1 1/4"	2 1/2"	50-100	64	75.00
5/8"x9	1 1/2"	2 3/4"	25-50	110	120.00
1"x8	1 3/4"	3 1/2"	25-50	192	180.00

PILOTTED SETTING PUNCH



Included without additional cost in each box of anchors.

ACKERMAN-JOHNSON STUD TYPE EXPANSION BOLTS

For fastening to concrete, brick, stone, etc.



With Single Expansion Unit

With Two Expansion Units



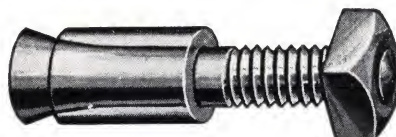
The stud type expansion bolt (single) consists of bolt with special, tapered head, a lead-alloy expandable unit and nut. When installed with tool shown below the threaded end of bolt protrudes and fixture may be secured with nut.

When set in good masonry the holding strength of single unit is about equal to the tensile strength of bolt.

Bolt installed; Expansion completed, and fixture attached.

However additional units may be used on the larger sizes for extra heavy duty or where the greatest possible safety is desired as for anchorage of heavy power equipment, street lamp or signal standards, etc.

STUD TYPE EXPANSION BOLTS COMPLETE



With Single Unit and Square Nut
List Per Hundred

Diam. of Bolt Thread	1/4"	5/16"	3/8"	1/2"		5/8"		3/4"		1"
	Galv.	Galv.	Galv.	Not Galv.	Galv.	Not Galv.	Galv.	Not Galv.	Galv.	Not Galv.
Length										
1 1/4"	9.20									
1 1/2"	9.30	11.00								
1 3/4"	9.40		15.20							
2"	9.50	11.40	15.50							
2 1/4"			15.80							
2 1/2"	9.70	11.80	16.10	29.00	33.00					
2 3/4"	9.90	12.20	16.70	30.50	35.00					
3"	10.10	12.60	17.30	32.00	37.00	53.00	60.00			
3 1/2"	10.40	13.00	18.00	33.50	39.00	55.00	63.00	71.00	84.00	
4"			18.70							
4 1/2"			19.40	37.00	43.00	60.00	69.00	79.00	94.00	
5"			20.10	40.50	47.00	65.00	75.00	87.00	104.00	212.00
6"				44.00	51.00					221.00
7"						72.00	84.00	99.00	119.00	230.00
7 1/2"										
8"			21.00	47.50	55.00					
9"						79.00	93.00	111.00	134.00	
10"				54.00	63.00					
10 1/2"						86.00	102.00	123.00	149.00	
12"				61.00	71.00	93.00	111.00	135.00	164.00	266.00
15"				72.00	85.00	108.00	130.00			293.00
20"				87.00	105.00					
Extra Units			12.00	22.00		38.00		60.00		120.00

Minimum Holes Required

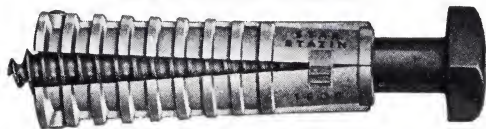
Diam. of hole	3/8"	1/2"	5/8"	3/4"	1"	1 1/8"	1 3/8"
Depth 1 unit	3/4"	1"	1 1/8"	1 1/2"	1 3/4"	2 1/4"	3"
Depth 2 units			2 1/4"	3"	3 1/2"	4 1/4"	5 3/4"

SETTING TOOL



Included with no added cost with each 50 or 100 bolts.

STAR STAZIN EXPANSION SHIELDS CAT. NO. 1800 ALLOY LAG SCREW EXPANSION SHIELD



Long Standard Sizes							
Cat. No.	*Diam. Lag Screw	Size Shield Lgth. In.	O.D. In.	Std. Pkg.	Shpg. Carton	Shpg. Wt. Lbs. Per 100	Price Per 100
1815	1/4	1 1/2	1/2	50	250	5	\$15.00
1820	3/8	1 3/4	1/2	50	250	5	18.00
1825	3/8	2 1/2	5/8	50	250	9 1/2	25.00
1835	1/2	3	3/4	25	250	14	38.00
1845	5/8	3 1/2	7/8	25	125	22	45.00
1855	3/4	3 1/2	1	10	100	29	65.00
Short Standard Sizes							
1818	1/4	1	1/2	50	250	3	15.00
1823	3/8	1 1/4	1/2	50	250	3	18.00
1828	3/8	1 3/4	5/8	50	250	7	25.00
1838	1/2	2	3/4	25	250	10 1/2	38.00
1848	5/8	2	7/8	25	125	12 1/2	45.00
1858	3/4	2	1	10	100	16	65.00

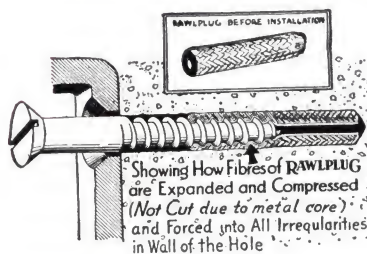
*Indicates diameter of lag screw with which the shield is used. The size of shield shown is outside diameter and indicates size of drill required. Price is for shield without lag screw.

When no length is specified on orders, Long Standard Shield will be furnished.



FIBRE ANCHORS FOR USE IN ANY MATERIAL WITH WOOD OR LAG SCREWS

Holds Screws Fast



Due to the metal core, the threads of the screw do not cut the fibres of the plug, but instead thread the metal core, making it possible to unscrew and replace the screw.



The fibre construction of the Rawlplug being flexible permits the plug to conform to any irregularities of the hole under compressive action of screw. Thus the entire length and circumference of plug grips the full surface of hole. Because of this "elastic compression" shock and vibration have no effect on the gripping power of Rawlplugs.



They work equally well in any material: wood, glass, masonry, plasters, slate, rubber, marble, tile, brick, concrete, or metal. Unaffected by moistures, temperature, insects, fungus, vibration, or shock.



FOR USE WITH STANDARD WOOD SCREWS

For Wood Screw		Use Rawlplug		Price Per 100	Lbs. Approx. Wgt. per Std. Pkg. (12 Boxes)	Use M/T or R/T Rawlplug		Use Tool-Holder No.	Use Twist Drill Size
Sizes	Lgths.	Size	Lgth.			No.	Dia.		
5-6	1"	6	5/8"	\$2.70	1	6		14	
	1 1/4"		3/4"	2.80	1	\$11.50	3/8"	\$24.00	3/8"
	1 1/2"		1"	3.00	1 1/2	Per Doz.		Per Doz.	
7-8	1"	8	5/8"	3.10	1 1/2	8		14	
	1 1/4"		3/4"	3.20	1 1/2	\$11.50	1 1/4"	\$24.00	No. 15
	1 1/2"		1"	3.40	2	Per Doz.		Per Doz.	
9-10	1"		5/8"	3.40	1 1/2	10		14	
	1 1/4"		3/4"	3.80	2 1/2	\$11.50	3/8"	\$24.00	No. 10
	1 1/2"		1"	4.20	2 1/2	Per Doz.		Per Doz.	
11-12	1"		5/8"	4.20	2 1/2	12		14	
	1 1/4"		3/4"	4.60	3 1/4	\$11.50	1/4"	\$24.00	1/4"
	1 1/2"		1"	5.00	4 1/4	Per Doz.		Per Doz.	
14 or 1/4" lag screw	1"	14	1 1/2"	5.40	5 1/2	14		14	
	1 1/4"		1 1/2"	6.00	5 1/2	\$12.50	3/8"	\$24.00	3/8"
	1 1/2"		2"	6.60	6	Per Doz.		Per Doz.	
16 or 3/8" lag screw	1"		1"	7.80	8	16		20	
	1 1/4"		1 1/2"	6.10	2 1/2	\$13.60	3/8"	\$30.00	3/8"
	1 1/2"		2"	7.60	3 3/4	Per Doz.		Per Doz.	
20 or 1/2" lag screw	1"		1"	9.10	5	20		20	
	1 1/4"		1 1/2"	9.00	3 1/2	\$15.70	3/8"	\$30.00	3/8"
	1 1/2"		2"	11.00	5 1/2	Per Doz.		Per Doz.	
	1 1/2"		2"	13.00	7 1/2				

Sizes Nos. 6-14 inclusive, packed 100 to a box.
Sizes Nos. 16-20 packed 50 to a box.

FOR USE WITH LAG SCREWS

For Lag Screw		Use Rawlplug		Price Per 100	Lbs. Approx. Wgt. Per Std. Pkg. (12 Boxes)	†Rawl-plugs Packed in Boxes of	Use Rawl-drill Size	Use Twist Drill Size
Size	Lengths	Size	Lgth.†					
3/8"	2 1/2"		1 1/2"	\$19.00	3 1/2			
	3"		2"	20.00	4 1/2			
	3 1/4"		2 1/2"	21.00	5 1/2	25	3/8"	3/8"
	4"		3"	22.00	6 1/2			
	4 1/2"		3 1/2"	26.00	4 1/2			
1/2"	3 1/2"		2"	27.00	4 3/4			
	4"		2 1/2"	28.00	5 1/2	25	1/2"	1/2"
	4 1/2"		3"	29.00	7 1/2			
	5"		3 1/2"	32.00	7 1/2			
	5 1/2"		4"	33.00	8 1/2	25	5/8"	5/8"
5/8"	5 1/2"		2 1/2"	34.00	10			
	6"		3"	38.00	11			
	6 1/2"		3 1/2"	39.00	13	25	3/4"	3/4"
	7"		4"	40.00	15			
			4 1/2"					

*For 1/4" Lag Screw use No. 14 or 16 Rawlplug.

†For 3/8" Lag Screw use No. 20 Rawlplug.

‡For 1/2" M/T and 1/2", 5/8", 3/4" R/T Rawldrills use No. 20 Holder.

†Prices quoted upon request for any size and length not shown above.

‡Standard Package contains one dozen boxes of Rawlplugs of same size and length or one dozen M/T or R/T Rawldrills or 1/2 dozen Holders of the same size.

RAWLDRILLS

TYPES OF RAWLDRILLS AND ACCESSORIES

Machined Type (symbol M/T straight flute, R/T twist flute). Accurately machined to size from solid bars of high grade tool steel. Recommended when drilling holes for Rawlplugs, Rawl-Drives, and all types of expansion bolts.

Used in a tool holder when drilling by hand and in Rawl-Chuck when drilling by power hammer. Can be resharpened on any grinding wheel. Made to exact diameters.



STRAIGHT FLUTE
M/T (Machined Type)
Rawldrills

TWIST FLUTE
(R/T) Rawl-Twist Drills

RAWL-CHUCK



Made of chrome nickel steel accurately machined and heat treated for a severe service in all standard electric and pneumatic chipping hammers.

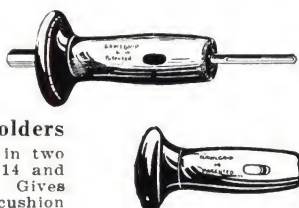
In ordering be sure to specify make of hammer and size, and if pneumatic whether round or hexagon barrel, and whether for No. 14, No. 20 or No. 3/8 drill taper.

Rawl-Chuckseach \$8.00
Special tool steel ejector pin for chucks
(5" long)net each .90
Extra shank pins for Pneumatic Chucks.....net each 1.90

RAWL-GRIP

To Fit Standard Tool Holders

Made of live hard rubber in two sizes, easily applied to No. 14 and No. 20 Rawldrill holders. Gives safe, comfortable and firm cushion grip.



No. 14 (Fits No. 14 Holder).....\$2.25 each
No. 20 (Fits No. 20 Holder)..... 2.25 each



Forged Drills — Standard Type (Symbol S/T) for Hand Drilling. Made in sizes from 3/8" to 1 5/8" inclusive. Enlarged handle eliminates shock to hand — makes drilling easier.



Rawl-Spiral Carbide Drill—Made in sizes from 1/8" to 1 1/2" inclusive.

Taper Shank (Symbol T/S) Power Hammers.



No. 5/8 Taper on Drills 3/8" to 1 5/8" diameter inclusive.



No. 20 Taper on Drills No. 16
(1/2" to 3/4" diameter inclusive). No. 14 Taper on M/T
Drills No. 6-14 inclusive.

Used in a tool holder when drilling by hand and in Rawl-Chuck when drilling by power hammer.

RAWLDRILLS

DRILL HOLDERS AND MACHINED (M/T) OR TWIST TYPE (R/T) RAWLDRILLS

Drills		List Price per Dozen‡	Use Drill- Holder No.	Drill Holders List Per Dozen‡
Size	Diameter			
6	5/32"	\$11.50	14	\$24.00
8	11/64"	11.50		
10	7/16"	11.50		
12	1/4"	11.50		
14	9/32"	12.50		
16	5/16"	13.60	20	\$30.00
20	3/8"	15.70		
7/16"	7/16"	31.00		
1/2"	1/2"	**34.00		
5/8"	5/8"	**45.00		
3/4"	3/4"	**60.00		

Ejectors for Drill Holders — \$6.00 per dozen. F.O.B. Nearest Branch.

‡Subject to Trade Discounts. **Made in Twist Type Only.

STANDARD TYPE (S/T) FORGED DRILLS

Size Actual Diameter	List Price per Dozen‡	
	Length Over All	
	As Shown	12"
3/8" x 9"	\$20.40	....
1/16" x 10"	20.40	....
1/2" x 10"	20.40	....
9/16" x 12"	\$20.40
5/8"	20.40
1 1/16"	24.00
3/4"	24.00
1 3/16" x 12"	26.40
7/8"	26.40
1"	27.00
1 1/8"	36.00
1 1/4" x 12"	45.00
1 3/8"	60.00
1 1/2"	75.00
1 5/8"	90.00

RAWL-SPIRAL CARBIDE DRILLS

Nominal Diameter	Length Over All Inches	List Price Each‡
3/16"	3	\$ 1.80
1/4"	4	1.80
5/16"	4	1.95
3/8"	4	2.15
7/16"	6	2.40
1/2"	6	2.70
9/16"	6	3.00
5/8"	6	3.30
1 1/16"	6	3.75
3/4"	6	4.20
7/8"	6	5.10
1"	6	7.20
1 1/8"	6	8.70
1 1/4"	10	10.50
1 1/2"	10	12.90

Prices on 18" and 24" Drills on Application.

‡Subject to Trade Discounts. F.O.B. Nearest Branch.

TAPER SHANK (T/S) RAWLDRILLS

Size, Actual Diameter	Length Over All — List Price Per Dozen‡			
	No. 20 Rawldrill Taper		No. 5/8 Rawldrill Taper	
	6"	12"	6"	12"
3/8"	\$15.00	....	\$22.80	....
7/16"	15.60	\$19.80	23.40	\$30.00
1/2"	17.40	19.80	26.40	30.00
9/16"	19.80	....	30.00	....
5/8"	19.80	24.00	30.00	36.00
1 1/16"	22.80	....	30.00	....
3/4"	22.80	26.40	30.00	36.00
1 3/16"	25.20	....	30.00	....
7/8"	25.20	30.00	30.00	36.00
1"	....	....	30.00	36.00
1 1/8"	....	....	33.60	37.80
1 1/4"	....	....	44.40	49.20
1 3/8"	....	....	....	52.80
1 1/2"	....	....	....	60.00
1 5/8"	....	....	....	72.00

Prices on 18" and 24" Drills on Application.

‡Subject to Trade Discounts F.O.B. Nearest Branch.

PAINE STAR DRILLS 4-POINT FORGED TYPE



Fig. 375

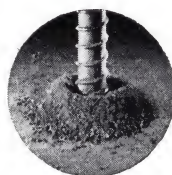
Made of heavy, specially forged, finest tool steel. This enables drill to hold its edge much longer than ordinary drills in standing up under hard and prolonged usage.

Drill Dia. In.	Length Inches	Price Per Doz.	Wt. Per Doz.
1/4	8	\$8.25	3/4
	12	8.50	1 1/4
	18	11.00	2
	24	13.50	2 1/2
5/16	8	8.25	1 1/2
	12	8.50	2 1/8
	18	11.00	3 1/4
	24	13.50	4 1/4
3/8	8	8.25	1 3/8
	12	8.50	3 1/4
	18	11.00	5
	24	13.50	6 1/2
7/16	8	8.70	2 1/4
	12	9.00	2 3/8
	18	11.50	5 1/4
	24	-----	-----
1/2	8	9.65	3 1/8
	12	10.00	4 1/4
	18	12.50	7 1/2
	24	15.00	9 3/4
9/16	8	11.65	4 1/4
	12	12.00	6 1/4
	18	15.00	9 1/2
	24	17.50	13 1/4
5/8	8	11.65	4 3/4
	12	12.00	7 1/4
	18	15.00	11 1/4
	24	17.50	15 1/4
3/4	8	13.70	5 1/4
	12	14.00	8 1/2
	18	17.50	13
	24	20.00	17 1/2
7/8	8	15.30	8 1/4
	12	16.00	10 1/2
	18	20.00	16
	24	22.50	21 1/2
1	8	17.00	9 1/2
	12	18.00	13
	18	22.50	19 1/2
	24	25.00	27
1 1/8	8	-----	-----
	12	24.00	15 1/2
	18	28.00	28 3/4
	24	32.00	37
1 1/4	8	-----	-----
	12	30.00	27
	18	35.00	39 3/4
	24	40.00	52

Small sizes 12 to package; larger sizes 6 to package.

PAINE "SUDDEN DEPTH" CARBOLOY TIPPED DRILL BITS

WITH AUTOMATIC DUST EJECTOR



FAST
ACCURATE
SILENT



HOLDS EDGE
MANY TIMES
LONGER THAN
ORDINARY
DRILLS

Fig. 365W

Finest tool steel with Carboly tip (Diamond-like hardness) — especially designed for expansion anchor installation.

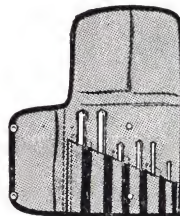
The "Sudden Depth" Drills are equipped with automatic dust ejector — a thin durable wire wound around the shank that spirals the dust and dirt out of the hole when drilling. Holes are kept clean, permitting the drills to bite into concrete and masonry with maximum speed and less wear.

Use in any hand or portable drill (slow speed) — the harder the material the slower the speed. Can be used continuously without cooling agent — will not harm the most fragile material.

Fig. 365W

Drill Diam.	(List Price Each— Round Fluted No. 365W No. 365F)	Actual Min. Drill Diam.	Shank Diameter Round Fluted	Overall Length
3/16"*	\$1.50	.198	3/16"	3"
1/4"	1.60	.260	1/4"	4"
5/16"	1.75	.328	5/16"	4"
3/8"	1.90	.390	3/8"	4"
7/16"	2.25	.458	7/16"	6"
1/2"	2.45	.525	1/2"	6"
5/8"	2.75	.587	5/8"	6"
3/4"	2.95	.650	3/4"	6"
7/8"	3.80	.775	7/8"	6"
1"	4.55	.905	1"	6"
1 1/8"	6.50	1.030	1 1/8"	6"
1 1/4"	-----	1.160	1 1/4"	6"
1 1/2"	-----	1.285	1 1/2"	10"
1 3/4"	-----	1.535	1 3/4"	10"

*Sizes 3/16", 1/4", 1/2" and 1 1/2" inch furnished without dust ejector.



CARBOLOY TIPPED DRILL BIT KITS

Packed in kits or individually boxed.

Kit No. A

One each—Sizes 3/16", 1/4", 5/16", 3/8", 1/2", 5/8"
-----list price each kit \$12.15

Kit No. B

One each—Sizes 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
-----list price each kit \$14.45

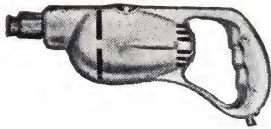
Kit No. C

One each—Sizes 1/4", 3/8", 1/2"
-----list price each kit \$5.95

CUMMINS PORTABLE TOOLS

GENERAL UTILITY ELECTRIC DRILLS

Model 150-160-170-190— $\frac{1}{4}$ Inch Capacity



Capacity: $\frac{1}{4}$ inch in metal, $\frac{1}{2}$ inch in wood. Frame: die cast aluminum. Motor: Designed for operation on 115 volts, AC. No-load Speed: 2200 r.p.m.

Bearings: self-aligning Oilite bronze; ball thrust on chuck spindle. Gears: steel pinion integral with armature shaft, extra-wide chuck gear of tough alloy metal; precision-cut and fitted for quiet operation. Switch: single-pole, "on-or-off," Thumb-operated slide action. Bakelite button with non-slip grooving. Cord: 8 ft. rubber covered, with 2-prong rubber plug. Length: 10 inches overall. Weight: 3 lbs. Chuck: for Model 150 — Jacobs 1B geared chuck; for Model 160 — Jacobs Hex-Key chuck (chuck key for each model permanently attached to cord in Jacobs Rubber-Flex holder); for Model 170—B & M keyless chuck; for Model 190—Jacobs keyless chuck.

Model No.	Description	Shpg. Wt. Lbs.	Price Each
150	With Jacobs geared chuck.....	4	\$21.95
160	With Jacobs Hex-Key chuck.....	4	19.95
170	With B & M Keyless chuck.....	4	18.95
190	With Jacobs Keyless chuck.....	4	19.50

CUMMINS MODEL 151 DRILL STAND

For Model 150, 160, 170 or 190

Quickly converts Cummins Model 150, 160, 170 or 190 Drill into a handy and sturdy drill press. Fast clamping device for accurately holding the drill. Neoprene grip operating handle. Machine surface grey iron base. Three screw holes for bench mounting. Painted machine grey.

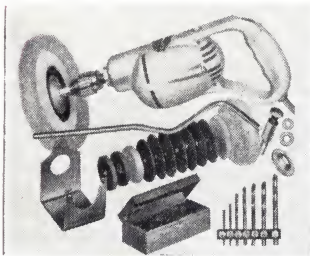
Drills to center of $7\frac{1}{2}$ -inch circle, with 3-inch vertical travel. $7\frac{1}{2}$ -inch maximum distance between chuck and table. $\frac{7}{8}$ -inch diameter solid cold rolled steel supporting column.

Price, Model 151 Drill

Stand onlyeach \$12.95

Model No. 201 Drill Stand for No. 200, $\frac{1}{2}$ -inch Drill. Priceeach \$17.50

CUMMINS MODEL 195 POWER TOOL KIT



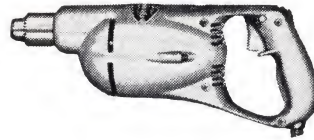
This 29-piece Power Tool Kit consists of the following: Cummins 190 Drill—115 volt A.C. Motor—2200 r.p.m.; light strong aluminum die-cast housing; On-Off safety switch; $\frac{1}{4}$ -inch Jacobs chuck. 4-inch rubber backing pad; $\frac{3}{4}$ -inch

lambswool bonnet; 6 sanding discs; 7 carbon steel twist drills; steel arbor and attachments (5 pieces); 3-inch cloth buffing wheel; 3-inch grinding wheel; 3-inch wire wheel brush; steel paint mixer; steel bench stand; sturdy steel chest.

Price, Model No. 195 Power Tool Kit.....\$21.95

CUMMINS PORTABLE TOOLS

No. 425 STANDARD DUTY $\frac{1}{4}$ -INCH DRILL



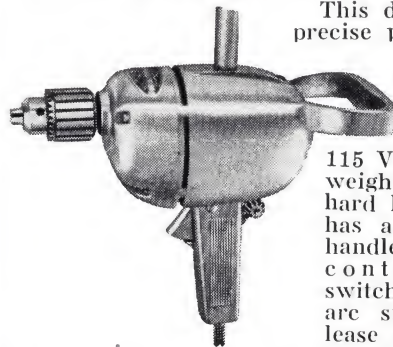
Capacity, $\frac{1}{4}$ -inch in metals, $\frac{1}{2}$ -inch in wood. Universal AC or DC motor, 115 V. standard; 220 volts special. Jacobs 7B

chuck. 2200 rpm standard. Ball and "Oilite" bearings mounted in proper position. Trigger switch with arc snuffers and lock for continuous operation. Equipped with 10 ft. 3-conductor cord with rubber plug and pig-tail for grounding. Length, $11\frac{1}{2}$ inches overall. Net weight, $4\frac{1}{4}$ lbs.; shipping weight, 6 lbs.

Price, No. 425 $\frac{1}{4}$ -inch Drill with Jacobs 7B

Geared Chuckeach \$35.95

No. 200 STANDARD DUTY $\frac{1}{2}$ -INCH DRILL



This drill is ideal for precise production drilling in metal or wood. Dynamically balanced, full size, Universal AC-DC

115 V. motor; low weight (8 lbs.) for its hard hitting capacity; has auxiliary top handle. Momentary contact two-pole switch with automatic arc snuffers and release button. Diecast aluminum body. Anti-

friction ball, roller and "Oilite" bearings; sealed lubrication. Helical cut alloy steel gears, heat treated for toughness. No-load speed 550 r.p.m. Shipping weight, 12 lbs.

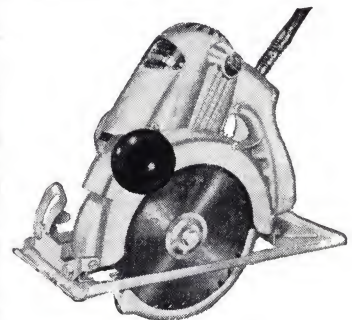
Price, No. 200 $\frac{1}{2}$ -Inch Drill with Jacobs

Geared Chuckeach \$42.95

No. 600 CUMMINS PORTABLE SAW

With Bevel Base

Powered and engineered to provide outstanding performance. Base adjusts for depth and bevel cuts. Equipped with 6-inch blade, cuts $1\frac{7}{8}$ inches deep. Has die cast aluminum frame and universal AC-DC 115-volt motor. No-load speed, 4200 r.p.m. Ball bearings on armature and



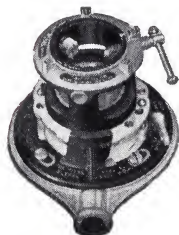
worm shaft; ball and roller on saw shaft. Precision cut steel worm, bronze wheel. Double-pole, momentary contact safety switch. Blower keeps line of cut clear of sawdust. Telescopic type safety guard with quick return feature. Base adjusts vertically for depth of cut from $\frac{3}{4}$ to $1\frac{1}{8}$ inches. Bevel cuts at 45° through lumber $1\frac{7}{8}$ inches thick. Has 12 ft. 3-conductor rubber covered cord with 2-prong plug and pigtail connector for ground. Length overall, 12 inches. Net weight 11 lbs. Equipped with one 6-inch combination blade, tube of lubricant, wrench. Shipping weight, 14 lbs.

Price, No. 600 Portable Saw.....each \$62.50

No. 020 steel carrying case available at extra cost of \$5.50.

RIDGID PIPE TOOLS

NO. 65R RATCHET PIPE THREADERS



No. 65R-P

Self-contained die stock, threads 1, 1¼, 1½ and 2-inch pipe. High speed steel chaser dies. One set of dies. Thumb lever releases dies for quick back-off. Handy stand-up feet.

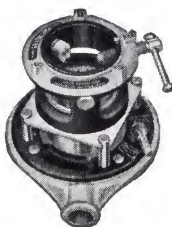
Choice of two speedy mistake-proof workholders — no bushings. Automatic cam type — turn gauge ring to pipe size. Plate type — turn screws to size on plate.

Cat. No.	Description	Price Complete
65R-P	Ratchet with plate type Workholder	\$25.60
65R-C	Ratchet with Cam type Workholder	27.50
No. 65DRP, same as No. 65RP but with 2 handles, \$27.00. No. 65DRC, same as No. 65RC but with 2 handles. \$29.50.		

NO. 1R POSTER THREADERS

Strong steel and malleable construction. Thread 1 to 2-inch pipe with 4 sets of dies, all kinds of pipe and conduit. Same size, same number chaser dies are interchangeable. Thumb lever reverses ratchet, locks it for solid die.

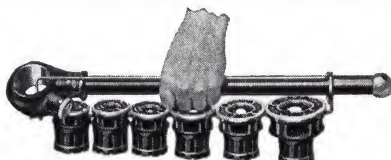
Automatic cam type — turn gauge ring to pipe size. Plate type — turn screws to size on plate.



No. 1R Poster

Cat. No.	Description	Price Complete
1R-P	Ratchet with Plate type Workholder	\$23.60
1R-C	Ratchet with Cam type Workholder	25.75
No. 1DRP Poster, 2-handle ratchet with plate type workholder, \$24.95; No. 1DRC Poster, 2-handle ratchet with cam type workholder, \$27.75.		

RIDGID THREADERS FOR SMALL PIPE



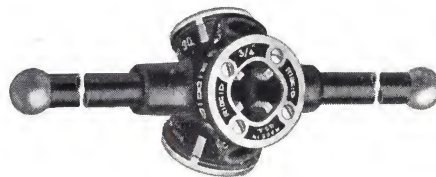
No. 00-R with Exposed Ratchet

No. 00-R with exposed ratchet, threads ⅛, ¼, ⅜, ½ and 1-inch pipe; No. 0-R with inclosed ratchet threads ⅛, ¼, ⅜, ½, ¾ and 1-inch pipe; No. 11-R with inclosed ratchet, threads ⅛, ¼, ⅜, ½, ¾, 1 and 1¼-inch pipe; all with convenient carrier.

Size	No. 00-R		Size	No. 0-R	
	Wt. Lb.	Price		Wt. Lb.	Price
⅛" to 1"	13¼	\$23.20	13¼	13¼	\$25.50
⅛" to ¾"	11¼	19.80	11	17¾	22.00
¼" to 1"	12½	19.80	12¼		22.00
¼" to ¾"	10	16.40	10		18.50
⅜" to 1"	11	16.40	11		18.50
⅜" to ¾"	8¾	13.00	9		15.00
½" to 1"	9¾	13.00	10		15.00
½" to ¾"	7½	9.60	8		11.50
Size	No. 11-R		Size	No. 111-R	
	Wt. Lb.	Price		Wt. Lb.	Price
⅛" to 1¼"	19½	\$31.95	20½		\$29.75
¼" to 1"	16¾	28.15	17¾		25.90
¼" to 1¼"	18¾	28.15	19		26.13
¾" to 1"	15¾	24.35	16		22.28
¾" to 1¼"	17	24.35	17		22.51
¾" to 1"	14	20.55	14		18.66
½" to 1¼"	15½	20.55	15¼		18.89
½" to 1"	13	16.75	12¼		15.04

RIDGID PIPE TOOLS

3-WAY DIE STOCKS



Convenient compact headers, with same handy reversal of chasers for close-to-wall threads, same alloy chasers easily removed for regrinding as ratchet dies No. 00-R, etc.

Cat. No.	Description	Wt. Lbs. Each	Price Complete
30-A	Threads ⅜, ½, ¾-in. pipe	6	\$10.80
31-A	Threads ½, ¾, 1-in. pipe	10	11.50

HEAVY-DUTY PIPE CUTTERS

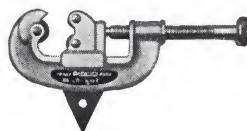


No. 1 Heavy-Duty Cutter

Extra cutting power comes from the heat-treated blade, assembled in a steel-bushed hub; tough and thin, it rolls through all kinds of pipe. Extra rugged heavy-duty cutter wheels also available. The heavy-duty cutter with powerful malleable frame is made to cut true, each one tested and guaranteed. Trench-type heavy-duty cutter Nos. 42 and 44 with 4 cutter wheels and short handle for cutting in close quarters. All cutters can be made 3-wheel.

Cat. No.	Description	Price Each
1	Heavy-duty, ⅛ to 1¼-in. capacity	\$ 5.80
2	Heavy-duty, ⅛ to 2 -in. capacity	7.75
3	Heavy-duty, 1 to 3 -in. capacity	13.00
4	Heavy-duty, 2 to 4 -in. capacity	26.00
6	Heavy-duty, 4 to 6 -in. capacity	38.95
42	Four-wheel pipe cutter, ½ to 2-in.	9.10
44	Four-wheel pipe cutter, 2½ to 4-in.	33.00

COPPER AND BRASS TUBING CUTTER WITH ROLLS



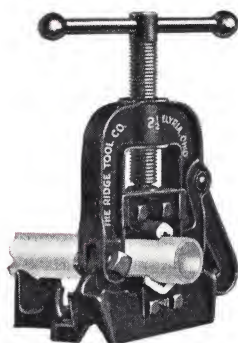
This cutter rolls quickly, easily and cleanly through copper, brass or aluminum tubing and thin wall conduit. Rollers smooth the tube, ready for soldering.

Compact, light, strong; always cuts true. Handy integral reamer that saves time. Wheel well protected from damage in tool kit. Razor-edge cutter wheel of alloy steel gives many more quick clean cuts per wheel.

Cat. No.	Description	Price Each
000	⅛ to 1-in. capacity (O.D.)	\$2.15
00	⅜ to 1½-in. capacity (O.D.)	2.45
0	½ to 2½-in. capacity (O.D.)	4.45

RIDGID PIPE TOOLS

BENCH YOKE VISES



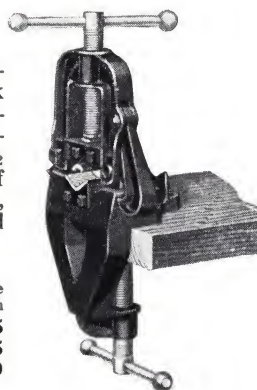
Equipped with integral pipe rest and pipe bender. LongGrip jaws to protect polished pipe are furnished in sizes up to 4-inch capacity.

Cat. No.	Capacity	Price
BY-1 1/4	1/8"-1 1/4"	\$4.60
BY-2A	1/8"-2"	6.90
BY-2 1/2	1/8"-2 1/2"	8.20
BY-3	1/8"-3"	11.00
BY-3 1/2	1/8"-3 1/2"	12.30
BY-4	1/8"-4"	15.00
BY-4 1/2-5	1/8"-5"	17.05
BY-6	1/8"-6"	38.40

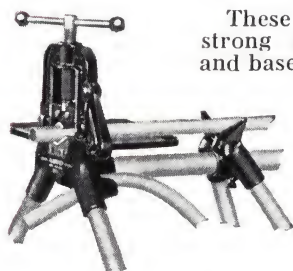
KIT VISES

The Kit vise is easily attached to plank or work bench. LongGrip jaws to protect polished pipe are furnished in sizes 1 1/4 to 2 1/2 inches. Jaws are made of finest quality tool steel, hardened for firm grip and long wear.

Cat. No.	Capacity	Price Each
KY-1 1/4	1/8"-1 1/4"	\$6.25
KY-2A	1/8"-2"	8.65
KY-2 1/2	1/8"-2 1/2"	11.20



STAND YOKE VISE



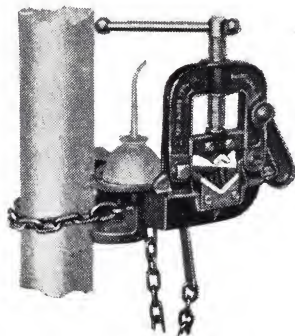
These vises are made with strong special malleable yokes and bases. Equipped with integral pipe rest and pipe bender; LongGrip jaws protect polished pipe. Jaws made of finest quality tool steel. Legs and connection pipe not furnished.

Cat. No.	Capacity	Price
SY-2 1/2	1/8"-2 1/2"	\$15.40
SY-3 1/2	1/8"-3 1/2"	17.50

POST YOKE VISE

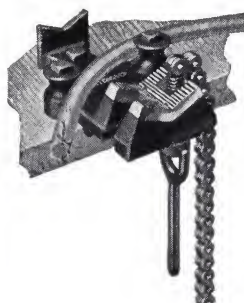
Quick put-up and take-down, without tools or wedges. Vise equipped with integral pipe rest and pipe bender. All jaws made of finest quality tool steel, hardened for firm grip and long wear.

Cat. No.	Capacity	Price Each
PY-2 1/2	1/8"-2 1/2"	\$16.20



RIDGID PIPE TOOLS

BENCH CHAIN VISES



Chain vises are speedy to use—simply flip the chain over the pipe, tighten screw handle. Jaws are made of highest quality tool steel, hardened for long wear.

Cat. No.	Capacity	Price Each
BC-2	1/8"-2"	\$ 5.35
BC-4	1/4"-4"	10.85
BC-5	1/4"-5"	14.45
BC-6	1/2"-6"	19.50
BC-8	1/2"-8"	26.05

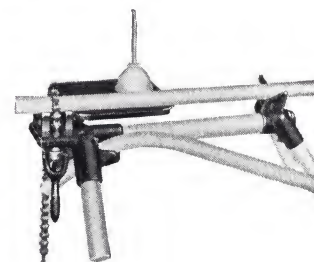
STAND CHAIN VISE SC-5

Chain vise is furnished in capacities 1/8-inch to 5 inches.

Handy tray for tools, oil can, dope pot, etc. Convenient pipe bender.

Legs and connections not furnished.

Cat. No.	Capacity	Price Each
SC-5	1/8"-5"	\$16.75

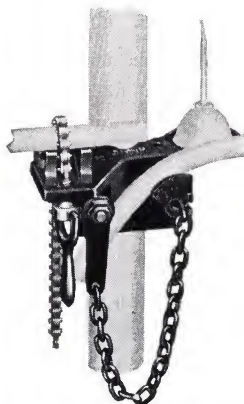


POST CHAIN VISE

Made with 1 1/4-inch pipe bender and oil can holder. Wrench for attaching to post is chained to the vise, always handy.

Capacity 1/8-inch to 5 inches.

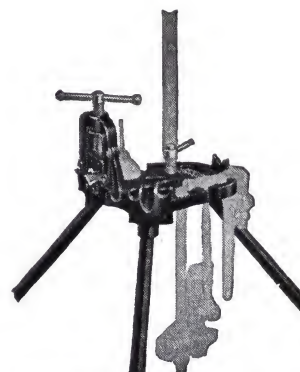
Cat. No.	Capacity	Price Each
PC-5	1/8"-5"	\$14.75



TRI-STAND PIPE VISE

Made in both yoke and chain vise models, offers so many convenience features that it's practically a portable workbench. Wide, roomy stand for dope pot, oil can and tools. Balanced to prevent tipping; adjustable ceiling brace, screw-down feet. Pipe rest, 3 benders; legs furnished hinged at tray so they fold in, and chain for easy carrying.

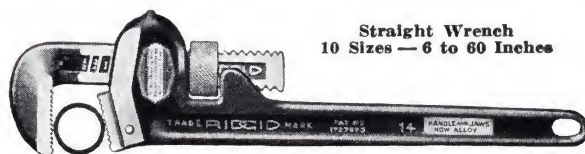
Cat. No.	Description	Price Each
TSY-2 1/2	Tri-Stand with Yoke 2 1/2"	\$23.30
TSC-4	Tri-Stand with Chain Vise 4"	24.90



Tri-Stand with Yoke Vise

RIDGID PIPE WRENCHES

STRAIGHT AND END WRENCHES

Straight Wrench
10 Sizes — 6 to 60 InchesEnd Wrench
8 Sizes—E6 to E36
Inches

Size Inches	Capacity Inches	Wt. Lbs.		Complete Price Metal Handle	—Assembly—	
		Each	6 to Box		Straight Handle	End Handle
6 & E 6	$\frac{3}{4}$	$\frac{1}{2}$	2 $\frac{1}{2}$	\$ 1.90	\$ 1.75	\$ 1.75
8 & E 8	1	$\frac{3}{4}$	5	2.20	1.95	1.95
10 & E10	1 $\frac{1}{2}$	1 $\frac{3}{4}$	10 $\frac{3}{4}$	2.85	2.50	2.50
12 & E12	2	2 $\frac{3}{4}$	17	3.35	2.85	2.85
14 & E14	2	3 $\frac{1}{2}$	20 $\frac{1}{2}$	3.85	3.45	3.45
18 & E18	2 $\frac{1}{2}$	5 $\frac{1}{4}$	32	5.50	4.95	4.95
24 & E24	3	8 $\frac{3}{4}$	52	9.50	7.95	7.95
36 & E36	4 $\frac{1}{2}$	16 $\frac{1}{4}$	—	20.00	15.00	15.00
48	6	28	—	30.00	25.00	—
60	8	43 $\frac{1}{4}$	—	45.00	35.00	—

RIDGID LONGRIP PIPE REAMER

Above — Reamer Unit
Below — Reamer and ratchet
handle complete

Because of the long taper of this reamer, it cuts burr cleanly from the inside of pipe or conduit with least possible effort—practically no pressure required. Does not reduce wall of threading end nor flare or split pipe.

Furnished complete with ratchet handle; or reamer unit may be purchased separately for use in Ridgid No. 00-R small ratchet die handle.

Cat. No.	LonGrip Reamer Capacity Inches	Wt. Lbs.	Complete Price Each	Reamer Unit Only	Reamer Cone Only	Ratchet Handle Only
2	$\frac{1}{8}$ to 2	6	\$9.35	\$7.00	\$4.25	\$2.80
3	$\frac{3}{8}$ to 3	11 $\frac{1}{2}$	12.65	9.50	6.35	3.90

APPLETON TIGER-GRIP HICKEYS
AND COUPLINGSCF-7291
HickeyCF-7295
CouplingCF-7290
Hickey

One tool takes care of all sizes of conduit up to and including $\frac{3}{4}$ -in. and for 1-in. conduit the hickey and sleeve have been combined in one casting.

Tiger-Grip Hickey

Cat. No.	Conduit Inches	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.
CF-7290	$\frac{1}{2}$ & $\frac{3}{4}$	1	10	19
CF-7291	1	1	15	55
Tiger-Grip with Coupling				
CF-7295	$\frac{1}{2}$ & $\frac{3}{4}$	1	10	16
CF-7296	Jaws for Tiger-Grip Hickey			

Schedule "CF" Discounts

APPLETON BENDING TOOLS

For Electrical Metallic Tubing

BENDING TOOL

Especially designed for bending Electrical Metallic Tubing. Makes bends in exactly the right place and with very little effort.



Cat. No.	Size In.	Std. Pkg.	Wt. Lbs. Each
TW-14195	$\frac{1}{2}$	1	2 $\frac{1}{2}$
TW-14196	$\frac{3}{4}$	1	4 $\frac{1}{8}$
TW-14197	1	1	7



BENDING HICKEYS

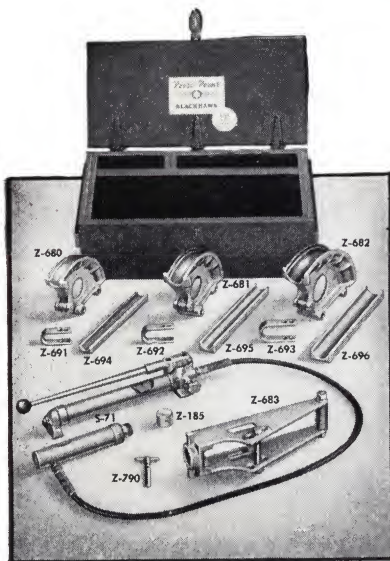
This hickey is of special design for short bends, tight corners and for "stubbing up" in concrete work.

Cat. No.	Size In.	Description	Wt. Lbs. Each
TW-12195	$\frac{1}{2}$	(Use $\frac{3}{4}$ " pipe handle)	1 $\frac{3}{4}$
TW-12196	$\frac{3}{4}$	(Use 1" pipe handle)	2 $\frac{3}{4}$
TW-12197	1	(Use 1" pipe handle)	4
TW-12198	1 $\frac{1}{4}$	(Use 1 $\frac{1}{4}$ " pipe handle)	10
TW-12199	1 $\frac{1}{2}$	(Use 1 $\frac{1}{4}$ " pipe handle)	12 $\frac{1}{2}$
TW-12200	2	(Use 1 $\frac{1}{2}$ " pipe handle)	15

Schedule "TW" Discounts

BLACKHAWK HYDRAULIC PORTO-POWER EQUIPMENT

S-34 BLACKHAWK S-34 HYDRAULIC THIN-WALL CONDUIT BENDER



Price of S-34.....each **\$203.40**
 Price of S-35.....each **128.00**

The new Blackhawk S-34 handles thin-wall conduit (electro-metallic tubing) in sizes of 1¼ and 2 inches.

It consists of the S-35 assortment of attachments and the S-71 hydraulic unit. Owners of the S-34A Bender need only buy the S-35 assortment to handle thin-wall conduit. Likewise, owners of the S-36 Bender need only purchase the RC-159 10-ton ram and the S-35 attachment assortment to bend thin-wall conduit.

S-34 offers such exclusive advantages like remote-control for more accurate bends — all directional operation to use ram and bending frame at any angle or plane — plus the extra utility of using the hydraulic unit as jack.

Furnished in durable wooden kit.

Contents of S-35

Part No.	Description	Qty. in S-35	Price
Z-680	1¼-inch Shoe (radius 7¼ inch).....	1	\$16.00
Z-681	1½-inch Shoe (radius 8⅞ inch).....	1	18.50
Z-682	2-inch Shoe (radius 9⅝ inch).....	1	24.00
Z-683	Bender Frame Assembly.....	1	20.00
Z-691	1¼-inch U Strap.....	1	1.90
Z-692	1½-inch U Strap.....	1	1.90
Z-693	2-inch U Strap.....	1	2.10
Z-694	1¼-inch Sliding Support.....	1	11.00
Z-695	1½-inch Sliding Support.....	1	13.00
Z-696	2-inch Sliding Support.....	1	17.00
Z-790	Strap Pin Assembly.....	1	1.30
Z-185	Plunger Saddle.....	1	1.30

Note: S-35 is shipped in shipping container only — if portable chest is desired in addition, specify 19538 chest.

PORTO-POWER HYDRAULIC KNOCK-OUT PUNCHES

Punches openings up to 4½ inches for conduit in the toughest conduit boxes, troughs, panels, etc. with tons of smooth, hydraulic, remotely controlled power. No more swinging of heavy, bulky wrenches — no more loosened boxes — no more shaky set-ups — no more cramped quarters — no more sudden breaking through to throw user off balance. Porto-Power Knock-Out Punches are safe, sure and speedy.

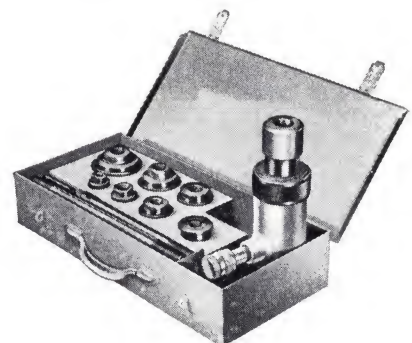
SB-40 ASST. Offers six conduit opening sizes of ½, ¾, 1, 1¼, 1½ and 2 inch. SB-40 includes six knock-out punches, five attachments, RC-426 hollow ram and case. See note below.....**\$93.50**

SB-41 ASST. Offers ten conduit opening sizes — same range as in SB-40 and 4 larger sizes of 2½, 3, 3½ and 4 inch. Includes ten knock-out punches, five attachments, RC-426 hollow ram and case. See note below.....**\$185.00**

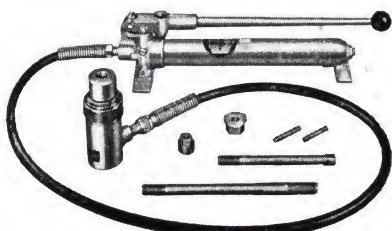
SB-44 ASST. Consists of the SB-43 hydraulic unit and six attachments to convert wrench-operated punches to hydraulic power.....**\$99.90**

SB-43 Unit includes P-76 pump, Z-913 hose and RC-426 hollow ram. Is the hydraulic unit in assortment SB-43 (not shown).....**\$90.00**

Note: The Porto-Power P-76 Pump and Z-913 Hose which connect to the RC-426 Ram, are not included in the above sets because electrician owning a Blackhawk S-71 or -78 unit already have this equipment. If you don't own the S-71 or S-78, then purchase the P-76 Pump and Z-913 Hose in addition to the SB-40 and SB-41. If electric operation is desired, specify the P-182 Pump.



SB-40

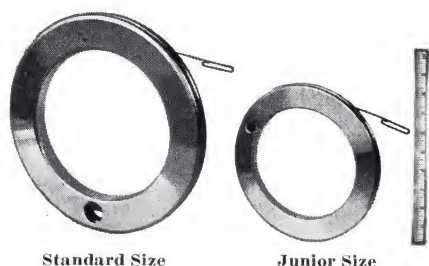


SB-44



SB-41

IDEAL FISH TAPE REELS AND PULLERS



Invaluable for building construction and industrial work. Reel serves as handle to give firm grip in pulling on fish tape.

Saves 50 per cent of the workman's time. Keeps tape fully protected, coiled ready to use.

Nine stock sizes of complete Fish Tape, Reels, and Pullers.

Cat. No.	Length and Size Tape	List Each
31-007	50 ft. 1/8 x .045 (3/16")	\$3.40
31-008	50 ft. 1/8 x .060 (1/8")	5.00
31-009	100 ft. 1/8 x .060 (1/8")	8.53
31-011	100 ft. 1/4 x .060 (1/8")	10.26
31-016	200 ft. 1/8 x .060 (3/16")	12.72

IDEAL FISH TAPES

Highest grade tempered spring steel is used. No curling. Flexible and easy to use on long runs of conduit having several bends.

Cat. No.	Length and Size of Tape	Price Each
31-004	50 ft. 1/8 x .060 (1/16")	\$1.73
31-036	100 ft. 1/8 x .060 (1/16")	3.33
31-038	200 ft. 1/8 x .060 (1/16")	6.60
31-050	100 ft. 1/4 x .060 (1/16")	5.33
31-052	200 ft. 1/4 x .060 (1/16")	10.66
31-078	50 ft. 1/8 x .045 (3/16")	1.53
31-079	100 ft. 1/8 x .045 (3/16")	2.86
31-082	Fish Tape Leader.....	3.13
31-083	Fish Tape Ball.....	.87

IDEAL COIL-FLEX FISH TAPE



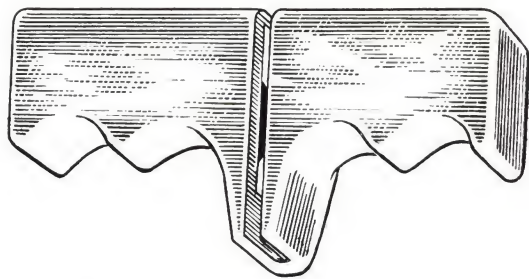
For all types of conduit — including aluminum. The Ideal Coil-Flex is extremely flexible; can be pushed or pulled with little effort through any and all bends allowed by the electrical code. Its round surface slides through any type of conduit far more easily than flat tape. Positively prevents cutting or damaging of aluminum. Ends are smooth and round to avoid catching or snagging.

The Coil-Flex consists of a 25-ft. length of steel spring 3/16 inch in diameter with a rustproof inner steel cable. A male fitting on one end and a female fitting on the other makes it easy to join together two or more lengths for jobs requiring a longer tape. Easy on the hands, it gives a safe, positive grip. Every Coil-Flex is factory inspected and tested at 400 pounds pull.

Price, No. 31-081 25-ft. length.....each \$10.20

BURBANK ELECTRICAL PRODUCTS

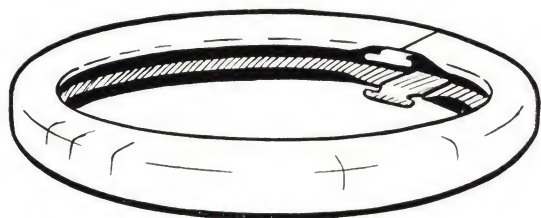
B.E.P. FISH TAPE PULLER



The B.E.P. Puller snaps on or off the tape instantly. Its gripping mechanism permits the Puller to slide easily on the tape, then automatically grips the tape when the hand draws backward in a pulling motion. It is easy on the electrician's hands. Fits any fish tape. Makes a hard pull easy. Packed 10 in a box.

Price, No. 108 B.E.P. Fish Tape Pullereach \$1.95

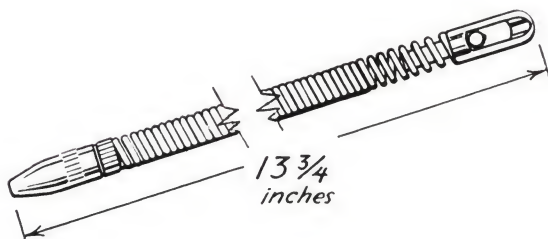
B.E.P. FISH TAPE REEL



Stores 100 feet of fish tape and stores it on the inside. A real time saver, its entire load can be coiled and uncoiled in a jiffy — as easy to pay out as a coil of wire. Saves the electrician's hands. One in a box.

Price, No. 114 B.E.P. Reel, (14 inch for 3/16 or 1/4-inch tape).....each \$2.25

N.E. BEND SNAKE LEADER

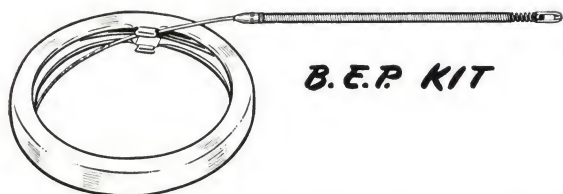


The famous N.E. Bend Snake Leader steers the fish tape smoothly around any bend; flips easily out of junction box. Will pull over 750 lbs.; can pull as many as seven wires. No jamming or forcing. Packed 10 in a box.

Price, No. 101 N.E. Bend Snake Leadereach \$2.75

BURBANK ELECTRICAL PRODUCTS

B.E.P. KIT



B.E.P. KIT

The B.E.P. Kit consists of the N.E. Bend Snake Leader, 100 feet of fish tape, and the B.E.P. fish tape Reel. The entire load of the Reel can be uncoiled in a jiffy — as easy to pay out as a coil of wire — and just as easy to reel in.

Price, No. 212 B.E.P. Kit.....each **\$7.85**

(Includes N.E. Bend Snake Leader, 100 feet 1/8x.060 tape and 12-inch reel.)

TOOLS

COMPASS SAWS



Length Inches	State Length Wanted Price Per Doz.	Length Inches	Price Per Doz.
10	\$8.50	16	\$10.00
12	9.00	18	10.50
14	9.50	----	-----

HACK SAW FRAME NO. 10



Cat. No. 10 Nickel Plated, Adj.; without blades..... **\$2.00**

"AAA" HACK SAW BLADES



Cat. No.	Length Inches	Width Inch	No. Teeth Per Inch	Wt. Lb. Per Gross	Price Per Gross
200	8	7/8	18	4 1/2	\$8.00
200	10	1 1/2	18	5 1/2	10.00
200	12	1 1/2	18	6 1/2	12.00
210	8	7/8	24	4 1/2	8.00
210	10	1 1/2	24	5 1/2	10.00
210	12	1 1/2	24	6 1/2	12.00
215	8	7/8	32	4 1/2	8.00
215	10	1 1/2	32	5 1/2	10.00
215	12	1 1/2	32	6 1/2	12.00
220	8	9/8	14	5	9.00
220	10	1 1/8	14	6 1/2	10.20
220	12	1 1/8	14	8	12.60

ELECTRICIANS' BX SAW



Made for standard 8 inch saws or special slotted saws supplied for quick replacing or deeper cuts. Especially designed for cutting steel armored cables, although can be successfully used for cutting fixture tubing, sawing lead sheath off cables, cleaning between segments in commutators, etc. Furnished with special slotted blades.

Complete with Blade—Price Each.....**\$1.50**
Extra Blades—Price Per Gross.....**10.00**

TOOLS

ELECTRICIANS' KNIVES



Mfrs. No.	Description	Price Each
1550-2	Double Blade	\$3.50

KLEIN TOOLS

NO. 201 SIDE CUTTING PLIER



Handles temper blued, polished head and jaws, scored jaws.

Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each
201-5	5	3	\$6.50	201-8	8	11 1/4	\$9.00
201-6	6	5 1/4	7.00	201-9	9	14	9.50
201-7	7	7 1/4	7.50	-----	-----	-----	-----

NO. 212 SIDE CUTTING PLIER

Same as No. 201 with addition of sleeve joint twister.



Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each
212-6	6	14 5 1/4	\$7.50	212-8	8	10 11 1/4	\$9.50
212-7	7	14 7 1/4	8.50	-----	-----	-----	-----

NO. 201-N.E. SIDE CUTTING PLIER



the nose is identical with series No. 201 except that

rounded to permit easier working in confined space and all edges rounded to prevent nicking of wire. Polished head and temper-blued handles.

Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
201-6-NE	6	5 1/4	\$7.00	201-8-NE	8	11 1/4	\$9.00
201-7-NE	7	7 1/4	7.50	201-9-NE	9	13 1/2	9.50

NO. 212-N.E. SIDE CUTTING PLIER

Identical with series 201-N.E. but has opening provided for twisting



double tube sleeve joints. Sleeve opening in 6- and 7-inch pliers for Nos. 14 and 17 N.B.S. and No. 12 B. & S. (.045). Sleeve opening in 8-inch pliers for No. 12 N.B.S. and No. 10 B. & S. (.104).

Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Size In.	Wt. Lbs. Per Doz.	Price Each
212-6-NE	6	5 1/4	\$7.50	212-8-NE	8	11 1/4	\$9.50
212-7-NE	7	7 1/4	8.50	-----	-----	-----	-----

NO. 202 OBLIQUE CUTTING PLIER

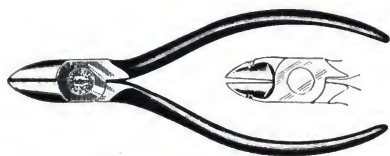


For close cutting in confined places, will cut silk insulation cleanly. Polished head and blued handle. Lap joint.

Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each	Cat. No.	Lgth. In.	Wt. Lbs. Per Doz.	Price Each
202-5	5	3 3/4	\$5.70	202-6	6	4	\$5.80

KLEIN TOOLS

NO. 245-W OBLIQUE CUTTING PLIER



This tool has two "W" shaped notches at back of knives. Designed for removing acetate cellulose insulation from .050 and .058 wires used on telephone distributing frames, etc. Wt. per doz. 3 lb.

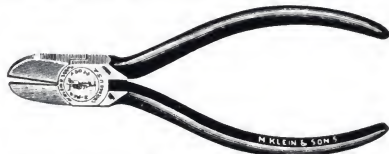
Price, No. 245-W, size 5-inch.....each \$6.50

NO. 245 OBLIQUE CUTTING PLIER

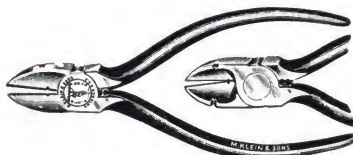
This plier measures exactly 5 inches in length. It is slightly smaller in all dimensions than the 202-5 and will be found particularly convenient as it can easily be carried in vest pocket.

Weight per dozen, 3 pounds.

Price, No. 245-5, size 5-inch.....each \$5.70



NO. 202-SW OBLIQUE CUTTING PLIER



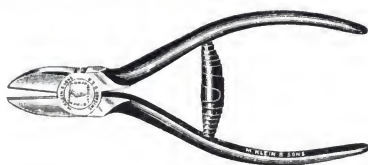
This plier is the all-purpose cutting tool for telephone installation and maintenance work. The "W" notches will slit acetate cellulose and other insulation from wires up to .058 O.D. A stripping hole .052 diameter is provided in blades. Sleeve openings in handle.

Weight per dozen, 3 3/4 pounds.

Price, No. 202-5-SW, size 5 1/2-inch.....each \$7.00

NO. 202-5-V OBLIQUE CUTTING PLIER
(Volute Spring—Narrow Head)

This is the regular No. 202-5 plier but fitted with volute spring for bench work.



Price, No. 202-5V, size 5 1/2-inch.....each \$8.00

NO. 220 "AUTO" OBLIQUE-CUTTING PLIER



Made especially for automotive mechanics and others who demand a high quality plier of this pattern. Knives are close cutting and carefully matched for their full length. The "Handform" handles provide full leverage and comfort for continual use. Weight per doz., 7 pounds.

Price, No. 220-7, size 7-inch.....each \$6.50

KLEIN TOOLS

NO. 301 LONG NOSE PLIER

Without Cutters



Perfected to meet a long-felt want of electrician and general mechanic. For switchboard, telegraph and telephone work, armature winding, etc.

Cat. No.	Size In.	Wt. Per Doz. Lbs.	Price Each	Cat. No.	Size In.	Wt. Per Doz. Lbs.	Price Each
301-5	5	3 1/4	\$4.90	301-7	7	4 1/4	\$5.50
301-6	6	3 3/4	5.00	-----	-----	-----	-----

NO. 203 LONG NOSE PLIER

Side Cutting

Same as No. 301 series with addition of cutting knives.



Cat. No.	Size In.	Wt. Per Doz. Lbs.	Price Each	Cat. No.	Size In.	Wt. Per Doz. Lbs.	Price Each
203-5	5	3 1/4	\$5.50	203-7	7	4 1/4	\$6.30
203-6	6	3 3/4	6.00	-----	-----	-----	-----

NO. 303-6 LONG NEEDLE NOSE PLIER



Has all the features of No. 301 series, except that the points of the nose are of the needle point pattern. Polished head and temper-blued handles. Standard package 6. Weight per dozen, 3 3/4 pounds.

Price, No. 303-6, size 6-inch.....each \$5.00

NO. 217 CHAIN NOSE PLIER, SIDE CUTTING

Similar to No. 317-6 but with side cutting knives. The knives are carefully matched and cut true over their entire length. Made in one size only. Weight per dozen, 3 1/2 pounds.



Price, No. 217-6, size 6-inch.....each \$6.00

NO. 313 HEAT-COIL PLIER



Particularly adapted for the removing of heat coils from switchboards and telephone terminals, the points of the nose being shaped to fit the coils. This tool is also serviceable in removing caps from batteries or from binding posts, as well as holding any cylindrical object.

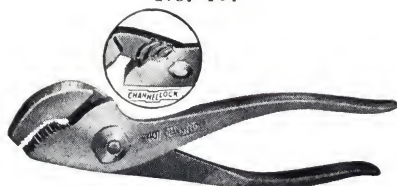
Weight per dozen, 3 3/4 pounds.

Price, No. 313-6, size 6-inch.....each \$5.20

CHAMPION DeARMENT TOOLS CHANNELLOCK SELF-GRIPPING PLIERS

The Channellock design provides a quick, positive grip when pressure is applied to only one handle. The greater the pressure, the tighter the grip. The exclusive tongue and groove joint makes a plier far superior to the conventional type.

No. 407



This plier is primarily intended for battery work. The self-gripping feature insures a positive grip on acid corroded and mutilated terminal nuts. Polished steel finish. Length, 7 inches; capacity, $\frac{3}{8}$ to $\frac{5}{8}$ inch. Packed 6 to a carton; weight per dozen, 6 $\frac{1}{4}$ lbs.

Price, No. 407.....each \$2.30

No. 410



A heavy-duty self-gripping plier which will hold work of any shape with a positive pipe wrench grip. Polished steel finish. Length, 9 $\frac{1}{2}$ inches; capacity, $\frac{3}{8}$ to 1 $\frac{1}{8}$ inches. Packed 6 to a carton; weight per dozen, 12 $\frac{1}{2}$ pounds.

Price, No. 410.....each \$3.20

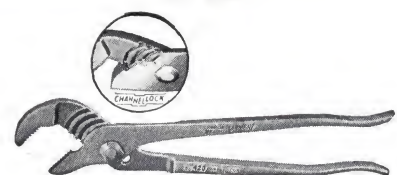
No. 417



A heavy-duty plier with a gripping power many times greater than the ordinary slip-joint plier. Polished steel finish. Length, 7 inches; capacity, $\frac{7}{8}$ inch. Packed 6 to a carton; weight per dozen, 6 $\frac{3}{4}$ pounds.

Price, No. 417.....each \$2.30

No. 420



The wide range of adjustments of the No. 420 Pump Plier makes it adaptable to a multitude of uses. The adjustment eliminates wear on the joint bolt and greatly prolongs the life of the tool. Five adjustments. Length, 9 $\frac{1}{2}$ inches; capacity, $\frac{3}{8}$ to 1 $\frac{1}{8}$ inches. Packed 6 to a carton; weight per dozen, 9 pounds.

Price, No. 420.....each \$2.90

CHAMPION DeARMENT TOOLS CHANNELLOCK SELF-GRIPPING PLIERS



PAT. IN CAN. 1933
U. S. PAT. 1950362

This ignition plier incorporates the Channellock adjustment feature in order to eliminate wear on the joint bolt and lengthen the life of the tool. A midget plier. Polished steel finish. Length, 4 $\frac{1}{2}$ inches; capacity $\frac{1}{2}$ inch. Packed 6 to a carton; weight per dozen, 1 pound.

Price, No. 424.....each \$2.00

CHANNELLOCK STANDARD PATTERN PLIERS

No. 307 BATTERY PLIER—LAP-JOINT



Blued finish.

No. 307—Length, 7 inches; weight per dozen, 4 $\frac{1}{4}$ pounds; capacity, $\frac{1}{4}$ to $\frac{5}{8}$ inch.....each \$1.30

No. 317 $\frac{1}{2}$ LONG NEEDLE-NOSE PLIER With Side-Cutter



No. 317 $\frac{1}{2}$ —Length, 7 $\frac{1}{2}$ inches; weight per dozen, 5 pounds.....each \$2.75

No. 3017 $\frac{1}{2}$ same as above without side cutters.....each \$2.20

No. 326 NEEDLE-NOSE PLIER With Side-Cutter



No. 326—Length, 6 inches; weight per dozen, 3 $\frac{3}{4}$ pounds.....each \$2.30

No. 3026, same as above without side cutter.....each \$1.80

No. 337 DIAGONAL CUTTING PLIER Lap Joint



Polished steel finish. Knurled handles.

No. 337—Length, 7 inches; weight per dozen, 6 pounds.....each \$2.20

No. 348 $\frac{1}{2}$ LINEMEN'S PLIER—ROUNDED NOSE



No. 348 $\frac{1}{2}$ —Length, 8 $\frac{1}{2}$ inches; weight per dozen, 10 $\frac{3}{4}$ pounds.....each \$3.80

No. 347—Length, 7 inches; weight per dozen, 6 $\frac{3}{4}$ pounds.....each \$2.80

No. 346—Length, 6 inches; weight per dozen, 5 pounds.....each \$2.40

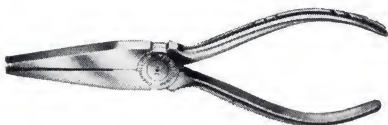
The above pliers packed 6 per carton.

CHAMPION DeARMENT TOOLS
CHANNELLOCK STANDARD PATTERN PLIERS
No. 3048 ½ LINEMEN'S PLIER—BEVEL NOSE



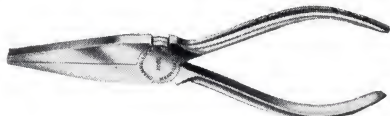
- No. 3048 ½—Length, 8 ½ inches; weight per dozen, 10 ¾ poundseach **\$3.80**
 No. 3047—Length, 7 inches; weight per dozen, 7 poundseach **\$2.80**
 No. 3046—Length, 6 inches; weight per dozen, 5 poundseach **\$2.40**

No. 366 FLAT-NOSE PLIER
With Side-Cutter



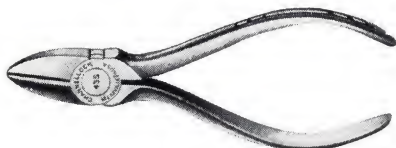
- Polished steel finish. Knurled grips.
 No. 366—Length, 6 inches; weight per dozen, 3 ½ poundseach **\$2.40**

No. 3066 FLAT-NOSE PLIER
Without Side-Cutter



- Polished steel finish. Knurled grips.
 No. 3066—Length, 6 inches; weight per dozen, 3 ½ poundseach **\$1.90**

No. 435 DIAGONAL CUTTING PLIER
Box Joint



- Polished steel finish. Knurled grips.
 No. 435—Length, 5 inches; weight per dozen, 2 ¾ poundseach **\$2.10**

No. 436 DIAGONAL CUTTING PLIER
Box Joint



- Polished steel finish. Knurled handles.
 No. 436—Length, 6 inches; weight per dozen, 4 ½ poundseach **\$2.35**
 The above pliers packed 6 per carton.

CHAMPION DeARMENT TOOLS
No. 437 DIAGONAL CUTTING PLIER
Box Joint



- Polished steel finish. Knurled handles. A popular plier with automobile and airplane mechanics.
 No. 437—Length, 7 inches; weight per dozen, 6 ¼ poundseach **\$2.80**

No. 516 THIN-NOSE SLIP-JOINT PLIER



- Polished steel finish. Knurled handles.
 No. 516—Length, 6 inches; weight per dozen, 4 ¾ poundseach **\$1.50**

No. 537 HEAVY DUTY SLIP-JOINT PLIER
With Wire-Cutter



- No. 537—Length, 7 inches; weight per dozen, 6 ¾ poundseach **\$3.00**

No. 568 ANGLE-NOSE PLIER
Slip-Joint



- Polished steel finish. Knurled grips.
 No. 568—Length, 8 inches; weight per dozen, 8 ¾ poundseach **\$2.25**
 All the above pliers packed 6 to a carton.

No. 99 UTILITY CLIPPER



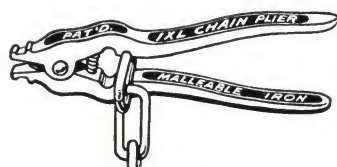
Drop forged. Has few parts: two jaws, two handles, and four bolts. Angle of the jaws throws handles above a level plane so that any position of work is accessible. Tool is designed with wide open diagonal jaws for cutting battery terminals. Also makes an excellent clipper for small bolts, wire, etc.

- No. 99—Length, 15 ¾ inches; weight per dozen, 30 ½ poundseach **\$5.00**

I. X. L. CHAIN PLIER



Opening Link



Closing Link

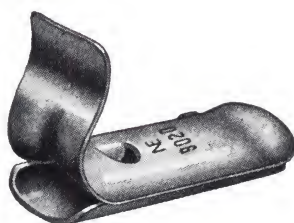
For opening and closing electrical chain links. The nose of the plier is used for opening the links, while the notches in the handle close the links. The double nose provides for opening large or small links. Two notches in the handle provide for closing large or small links. A coil spring in handle keeps the points together affording easy insertion in the link.

The plier is 7 inches long, made of malleable iron, has a perfect grip and is very powerful. Attractively finished in copper bronze. Packed one dozen in an attractive counter display box. Weight per dozen, 7¼ pounds. Weight per case (1 gross pliers) 105 pounds.

Price, IXL Chain Plier.....each \$0.75

EZ CABLE RIPPER

For Non-metallic sheathed cable. Lays open cable without scoring the conductors. Designed especially for the new, smaller diameter cables.



Cat. No.	Unit Pkg.	Std. Pkg.	Pkg. Wt.
9020-EZ	50	100	4½

IDEAL CABLE RIPPER AND WIRE GAUGE

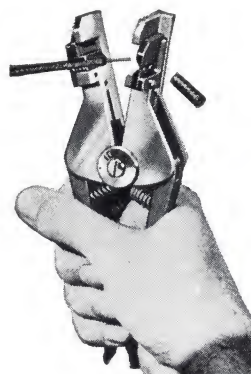


This ripper cuts cleanly, easily and quickly. Just the tool for use on nonmetallic sheathed duplex cable or lead-covered cable. The case-hardened cutting point gives long service.

Can also be used for ripping outer sheathing of other cords, lead cables, etc., where outside diameter is ⅝ in. or smaller.

Price, No. 45-018.....each \$0.57

IDEAL STRIPMASTER WIRE STRIPPER



The only hand type Wire Stripper with automatic single-squeeze operation. Exclusive automatic feature holds jaws open after stripping to permit removal of wire and prevent crushing. A single squeeze of the handles strips wire clean and bare up to a full ⅞ inch. There is no nicking or fraying of wire.

The narrow span between the handles and a light weight of only 10 ounces assure a comfortable grip. Simple design and sturdy construction make it practically abuse-proof. Blades are specially hardened for long service and can be changed with the removal of only two screws.

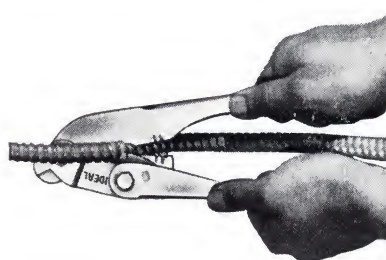
Strips any of the following wire: Building, fixture or telephone wire — lamp, portable equipment and appliance cords. Automotive wiring, radio, instrument wire and cable — switchboard and aviation wire, also FM and TV down lead wire.

Cat. No.	Wire Gauge	Price Each	Extra Blade No.	Price Per Pair
*45-090	8 to 10.....	\$7.00	L-4419	\$1.47
45-091	10 to 18.....	7.00	L-4420	1.47
*45-092	14 to 22.....	7.00	L-4422	1.47
45-093	16 to 22.....	7.00	L-4422	1.47
45-094	16 or 18 or FM and TV down lead wires	7.00	L-4437	1.47

*Strip only. No cutting edge.

Blades are interchangeable on all models.

IDEAL BX ARMOR CUTTER



Cuts BX Armor in one operation. Just open the jaws and snip. Jaws are formed to take BX cable of any make, two or three wire, No. 10 or No. 14. No adjustments are necessary. Cuts quickly and cleanly without injury to wire insulation.

Handy pocket size. Hardened steel cutting blade is removable for sharpening. Blade is also replaceable. Weight, only 12 ounces.

Price, No. 45-079 BX Armor Cutter.....each \$4.80

GREENLEE ELECTRICIAN'S BITS

No. 21 SOLID CENTER ELECTRICIAN
AUGER BITS

These auger bits have a solid center type of twist, and single cutter head of the extension lip pattern. Fitted with a coarse screw point for fast feed, and have one spur for outlining hole, which insures smooth boring.

Standard package, ½ dozen in box.

Sizes in 16ths. Price per dozen.

Size	10	11	12
Price	\$11.40	\$13.30	\$13.30

No. 16 UNISPUR ELECTRICIAN'S
AUGER BITS

Sizes 4/16 inch through 10/16 inch are of standard Auger Bit dimensions; sizes 11/16 inch and larger have 5½-inch twist length, overall length 10 inches.

Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.
4	\$11.00	9	\$13.20	14	\$18.15
5	11.00	10	13.20	15	20.90
6	11.00	11	15.40	16	20.90
7	12.10	12	15.40	18	26.40
8	12.10	13	18.15	20	30.80

No. 44 SHORT UNISPUR AUGER BITS



This pattern is made with a short twist and overall length for plumbers' use. Sizes 1-inch and smaller have about 3-inch twist, 5½-inch overall length, and larger sizes 2¼-inch twist, 5½-inch overall length. The smaller sizes have a medium pitch screw point, and the larger sizes, to permit easy boring, are fitted with a finer point.

Standard package is 6, sizes 1¼-inch and under; 3, in sizes over 1¼-inch.

Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.	Size 16ths	Price Per Doz.
11	\$15.40	14	\$18.15	22	\$35.20
12	15.40	16	20.90	28	48.40
13	18.15	18	26.40	32	57.20

No. 48 BELL HANGER DRILL



This drill is made with twist 3¾ inches long.

Sizes in 32nds. Price per dozen.

Size	6	8	10	12	14	16
Price:						
12-inch	\$11.60	\$12.40	\$13.50	\$14.75	\$16.25	\$18.60
18-inch	15.50	16.25	17.00	18.60	20.25	22.50
24-inch	19.40	20.25	21.00	22.50	24.00	26.35

GREENLEE BIT EXTENSIONS



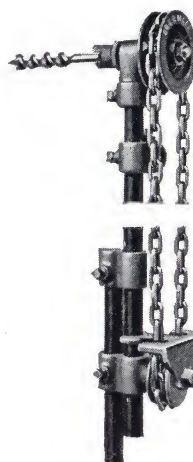
No. 900 has sufficient strength to drive a bit up to 1-inch diameter but small enough to follow a ⅝-inch bit. An accurately shaped recess in the chuck accommodates shank of bit, which is held by drawing holding sleeve against corners of the square.

No. 925 bit extension is similar in design except made extra heavy to follow a 1½-inch auger bit and drive tools up to 2-inch diameter.

Standard packing, 1 in leatherette case.

Lengths, In.	15	18	21	24
No. 900	\$2.85	\$2.95	\$3.10	\$3.25
No. 925		3.60		3.80

GREENLEE NO. 750 JOIST BORER



Makes the electrician's job of joist boring easier by combining the latest developments in design with a construction that is accurate and high grade.

The bit chuck runs smoothly in needle bearings and is sturdy enough to drive bits that are larger than those used in other types of borers. Equipped with heavy round-link chain and newly designed Idler Pulley Safety Guard that prevents injury to the operator's hand. The steel chuck drives bits up to 1¼ inches in diameter. Foot Rest for supporting frame on floor, and one 1½-in. No. 44 Short Unispur Auger Bit furnished as equipment with each machine.

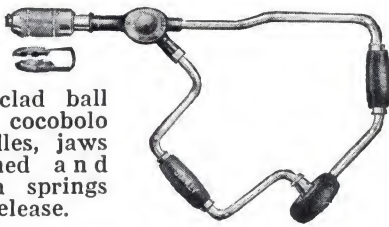
Cat. No.	Description	Price Each
750	Joist Borer (weight, 13 lbs.)	\$20.00

Extra Parts

AV71	Chain Sprocket	\$0.85
AV93	Pulley Hanger	.80
AV94	Spindle Head (old) AV94-2 (new)	.90
AV95	Foot Rest	2.75
AV96	Bit Chuck Cap	1.10
AV97	Bit Chuck Nut	.50
AV98	Spindle (old) AV98-2 (new)	1.35
AV99	Idler Pulley Guard	.75
AV100	Idler Pulley	.45
AV251	Bearing Collar (old style)	.30
AV252	Adjustable Clamp	.70
AV319	Adjustable Rest	.80
AV321	Spindle Nut with Lock Washer	.20
AV375	½ x 1¼ Hexagon Cap Screw	.05
AV376	¾ x ½ Square Head Set Screws (5)	.05
AV377	Ball Bearings, (3) each (old style)	.30
AV379	Needle Bearings	.60
AV388	Welded Round-Link Chain, 13½ feet	7.50
AV389	Woodruff Key	.05
AV390	½-inch Washer	.05

CORNER BIT BRACES

Made in two styles of chucks or jaws. Nickel plated, metal clad ball bearing head, cocobolo head and handles, jaws forged, machined and hardened, with springs for automatic release.



Universal Jaws

Cat. No.	Sweep Inches	Std. Pkg.	Wt. Lb. Std. Pkg.	Price Each
993	9	2	9	\$11.70

CENTURY HIGH SPEED DRILLS

No. 399 HIGH SPEED MECHANICS LENGTH DRILLS



Sizes 1/16 to 11/32-inch on Individual Cards

Sizes	Price Per Doz.	Sizes	Price Per Doz.	Sizes	Price Per Doz.	Sizes	Price Per Doz.
1/16	\$2.99	9/64	\$3.87	3/32	\$5.75	13/64	\$8.97
3/64	3.11	5/32	4.16	1/8	6.22	1/4	9.74
1/8	3.23	3/16	4.57	1/4	6.74	3/8	10.73
3/16	3.40	1/4	4.87	3/8	7.51	1/2	11.73
1/4	3.58	5/16	5.22	1/2	8.21		

Sizes 23/64 to 1/2-inch in Individual Boxes

Sizes	Price	Sizes	Price	Sizes	Price
23/64	12.73	13/32	16.19	29/64	19.94
3/8	13.72	1/4	17.48	1/2	21.17
1/2	14.96	1/2	18.71	3/4	22.70

Overall Length: The overall length of Century Mechanics Length Drills is 15% less than that of conventional straight shank drills.

CENTURY HIGH-SPEED DRILL SETS

On Individual Cards

M-203—Three Century high speed drills, 1/16, 1/8, 3/16 inch, mounted on a card and cellophane wrapped.

Price, Per Set.....each **\$0.95**

M-103—Three Century high speed drills, 3/32, 1/8, 5/32 inch. Combine this with Set No. M-203 for a 6 piece set, 1/16 to 5/32 inch by 32nds.

Price, Per Set.....each **\$1.10**

M-104—Same as M-203 with addition of 1/4 inch drill. Combine this with M-103 for a complete 7 drill set, 1/16 to 1/4 inch by 32nds.

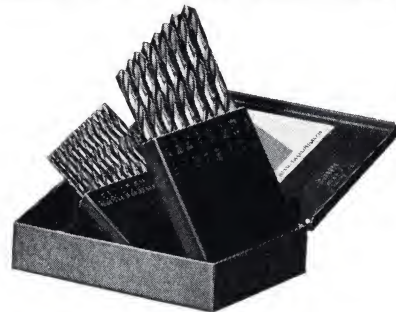
Price, Per Set.....each **\$1.50**

M-105—A 5 drill set, 1/16, 3/32, 1/8, 5/32, 3/16 inch. A natural "sell-up" from M-203 or M-103.

Price, Per Set.....each **\$1.55**

CENTURY HIGH SPEED DRILL SETS

DRILL SETS WITH HUOT INDEX



Set M-2

M-3—13 sizes of High Speed Drills 1/16 to 1/4 inch by 64ths with Huot Index. Price of drills only, \$4.80; container only, \$1.50.

Price, M-3 Set.....complete **\$6.15**

M-2—21 sizes of High Speed Drills, 1/16 to 3/8 inch by 64ths with Huot Index. Price of drills only, \$11.75; container only, \$3.50.

Price, M-2 Set.....complete **\$14.90**

M-15—15 High Speed Drills 1/16 to 1/2 inch by 32nds with Huot Index, with extra capacity for 14 more drills in 64ths.

Price, M-15 Set.....complete **\$17.00**

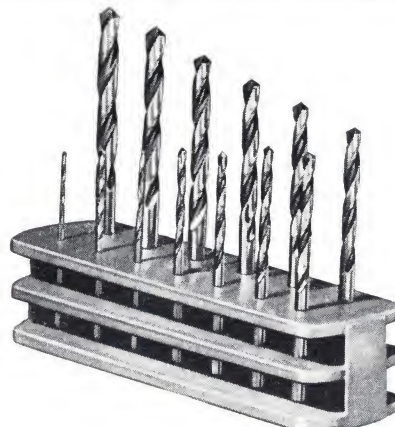
M-1—Contains 29 High Speed Drills of every 64th size from 1/16 to 1/2 inch, with Huot Index. Prices of drills only, \$24.70; container only, \$4.50.

Price, M-1 Set.....complete **\$28.15**

M-60—60 sizes of High Speed number size drills, sizes No. 1 to 60 with Huot Index. Price of drills only, \$20.00; container only \$3.75.

Price, M-60 Set.....complete **\$23.00**

HIGH SPEED DRILLS WITH METAL STANDS



Set ML-13

The ML-13 and ML-21 sets in Great Lakes metal stands to match popular demands of home work shop owners.

ML-13—13 sizes of High Speed Drills, 1/16 to 1/4 inch by 64ths. Price of drills only, \$4.80; stand only, \$0.90.

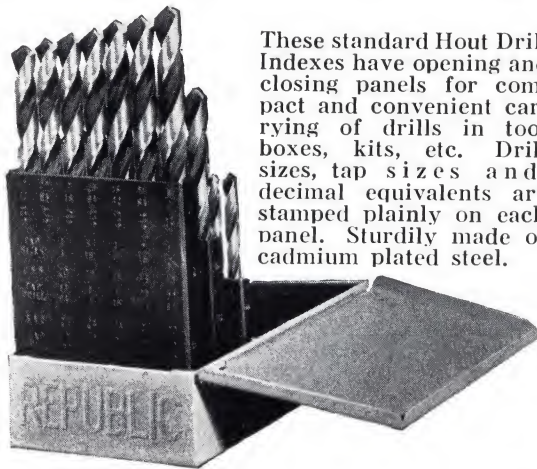
Price, ML-13 Set.....complete **\$5.70**

ML-21—21 sizes of High Speed Drills, 1/16 to 3/8 inch by 64ths. Price of drills only, \$11.75; stand only, \$0.90.

Price, ML-21 Set.....complete **\$12.65**

REPUBLIC HIGH SPEED DRILL SETS

SETS OF JOBBERS, LETTER AND WIRE GAUGE DRILLS IN FOLDING CONTAINERS

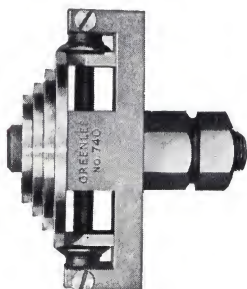


These standard Hout Drill Indexes have opening and closing panels for compact and convenient carrying of drills in tool boxes, kits, etc. Drill sizes, tap sizes and decimal equivalents are stamped plainly on each panel. Sturdily made of cadmium plated steel.

Drills and Containers Complete				Drill Sets Only	
Set No.	Type	Range of Sizes	Price	No.	Price
3-S	Jobbers	1/16 to 1/4 by 64ths	\$6.35	3	\$4.85
4-S	Jobbers	1/16 to 1/2 by 64ths	29.25	4	24.75
5-S	Wire Gauge	No. 1 to No. 60 incl.	22.60	5	18.85
6-S	Wire Gauge	No. 61 to No. 80 incl.	7.50	6	6.50
7-S	Letter Size	A to Z inclusive.	26.50	7	22.50
Containers Only					
No. 26	Container for Set No. 3				\$1.50
No. 27	Container for Set No. 4				4.50
No. 28	Container for Set No. 5				3.75
No. 42	Container for Set No. 6				1.00
No. 43	Container for Set No. 7				4.00

GREENLEE KNOCKOUT TOOLS

NO. 740 KNOCKOUT CUTTER



Greenlee Knockout Cutters enlarge holes up to 3 1/2 inches in diameter. Will cut through metal up to 10 gauge or 3/8-inch thickness in 1 1/2 minutes or less per hole. The hole is left clean and round, requiring no filing to smooth off the edges.

Operation is simple. The cutting is done by the feed and drive action of two-wheel cutters.

Cat. No.	Description	Price Each
740	For 1 1/2", 2", 2 1/2", and 3" Conduit	\$15.00

Extra Parts

AV323	Lock Screws (2)	.30
AV324	Wheel Cutters (2)	.50
AV325	Feed Nut	.20
AV326A	Disc 1 1/8" for 1 1/2" Conduit	.70
AV326B	Disc 2 3/8" for 2" Conduit	.80
AV326C	Disc 2 7/8" for 2 1/2" Conduit	1.00
AV326D	Disc 3 1/2" for 3" Conduit	1.20
AV327	Body	5.00
AV328	Shaft	.80
AV329	Drive Nut	.80
AV330	Retainer Screws (2)	.45
AV331	Cutter Bushings (2)	.25
AV332	Cutter Supports (2)	.65
AV333	Key Washer	.25
AV334	No. 7 Woodruff Key	.05

GREENLEE KNOCKOUT TOOLS

NO. 735 KNOCKOUT PUNCH SET



No. 735

This set is furnished with a leather case in which the punches are regularly packed. The set consists of 4 punches for cutting 7/8, 1 1/8, 1 3/8, 1 1/2-inch holes for 1/2, 3/4, 1, and 1 1/4-inch conduit.

Improved Drive for 1/2-Inch Punch

To increase the length of service of the 1/2-inch Punch in cutting 7/8-inch holes in the heavier-gauge sheet metals, the No. 1387AV Drive Screw and No. 1388AV Drive Nut are available. These fit the standard No. AV121 Punch and No. AV122 Die for 1/2-inch conduit, as furnished with the No. 735 Set, and they take the place of No. AV322 3/8-inch Cap Screw.

NO. 737 KNOCKOUT PUNCH SET

This set is packed in a leather case, similar to No. 735, but it consists of only two punches for cutting 1 1/8 and 2 3/8-inch holes to take 1 1/2 and 2-inch conduit.

NOS. 738 AND 739 KNOCKOUT PUNCHES

Shown here is the No. 738 Punch. The No. 739 is of same design, but larger. By adding these two punches to Nos. 735 and 737 Sets, enlargements can be made for all sizes of conduit from 1/2 to 3-inch inclusive. The No. 738 makes a 2 3/8-inch hole for 2 1/2-inch conduit, and No. 739 makes a 3 1/2-inch hole for 3-inch conduit.



No. 738

These two punches are not listed as a set, but are packed and sold individually.

Cat. No.	Description	Wt. Lbs.	Price
735	Knockout Punch Set for 1/2, 3/4, 1, and 1 1/4-inch conduit	2 3/4	\$10.00
.....	Improved Drive for 1/2-inch Punch (Drive Screw and Nut)	1/4	1.10
737	Knockout Punch Set for 1 1/2 and 2-inch conduit	4 1/4	10.00
738	Knockout Punch for 2 3/8-inch conduit	5 3/4	14.00
739	Knockout Punch for 3-inch conduit	7 1/4	19.00

Extra Parts

No. 735 Knockout Punch Set			
AV121	1/2" Punch for 1/2" Conduit		\$1.25
AV122	1/2" Die for 1/2" Conduit		.65
AV123	3/4" Punch for 3/4" Conduit		1.45
AV124	3/4" Die for 3/4" Conduit		.80
AV125	1 1/8" Punch for 1" Conduit		1.65
AV126	1 1/8" Die for 1" Conduit		.95
AV127	1 3/8" Punch for 1 1/4" Conduit		1.90
AV128	1 3/8" Die for 1 1/4" Conduit		1.05
AV322	3/8" x 1 1/4" Cap Screw		.25
AV249	3/4" x 2 1/2" Cap Screw		.35
Improved Drive for 1/2" Punch			
1387AV	Drive Screw		.75
1388AV	Drive Nut		.35
No. 737 Knockout Punch Set			
AV439	1 1/2" Punch for 1 1/2" Conduit		2.30
AV440	1 1/2" Die for 1 1/2" Conduit		2.00
AV441	2 3/8" Punch for 2" Conduit		3.20
AV442	2 3/8" Die for 2" Conduit		2.50
AV304	3/4" x 3 1/2" Cap Screw		.50
No. 738 Knockout Punch			
AV1429	2 3/8" Punch for 2 1/2" Conduit		5.40
AV1430	2 3/8" Die for 2 1/2" Conduit		5.00
AV1433	Drive Nut		1.35
AV1434	Drive Screw		2.75
No. 739 Knockout Punch			
AV1431	3 1/2" Punch for 3" Conduit		8.00
AV1432	3 1/2" Die for 3" Conduit		7.50
AV1433	Drive Nut		1.35
AV1434	Drive Screw		2.75

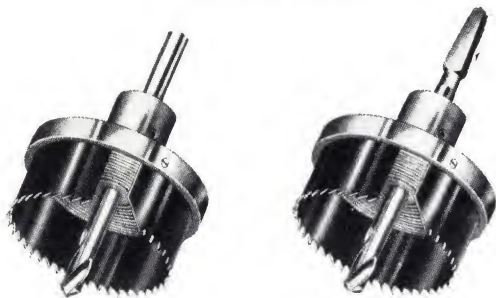
MISENER ROTARY HACK SAW

In Fractional Diameters from $\frac{5}{8}$ " to 15"

Cuts finished holes in steel, sheet metals, wood, cast iron, slate, plastics, plaster, etc. Blades are guaranteed non-shatterable.

Standard tool equipment in electrical, plumbing, heating, automotive, sheet metal, plastics, air conditioning, refrigeration, woodworking, general industrial trades.

HOLE-MASTER TOOLS (Multiple-cut Type)



Type P—For Power
(Specify P or B) Type B—Bit Brace

Electricians' Tools

No. 2—Complete with 9 sizes of blades which cut outside diameters of iron pipe or conduit for a slip fit from $\frac{3}{4}$ to 4 inches diameter, with $\frac{3}{4}$ inch depth of blades*.

Type B—for bit brace.....\$18.50
Type P—for power tool.....18.50
Type R—ratchet handle attachment.....20.00
Extra set of blades.....6.25

No. 4—Complete with 6 sizes of blades which cut outside diameters of iron pipe or conduit for slip fit from $\frac{1}{2}$ to 2 inches diameter, with $\frac{3}{4}$ inch depth of blades*.

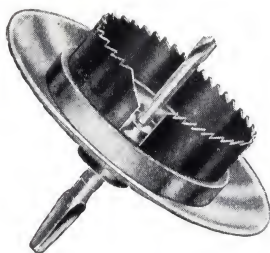
Type B—for bit brace.....\$11.00
Type P—for power tool.....11.00
Extra set of blades.....3.20

*Cuts made are $\frac{1}{4}$ -inch less than blade depth.

Replacement Blades No. 24 for Nos. 2 and 4 Tools —Iron Pipe and Conduit Size for Slip Fit

Depth	Dia.	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
$\frac{3}{4}$ "		.50	.50	.55	.55	.60	.70	.85	.95	1.05	
1"		.75	.80	.85	.90	.95	1.05	1.05	1.25	1.40	
1 $\frac{1}{2}$ "		1.25	1.25	1.35	1.35	1.40	1.50	1.50	1.80	1.95	
$\frac{1}{2}$ "		$\frac{3}{4}$	1 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$	2	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	4 $\frac{1}{8}$	4 $\frac{1}{2}$

‡Actual hole size.



MISENER ROTARY CEILING SAW

Will cut an opening in the ceiling for the installation of an outlet box as specified in the National Electrical Code. The pan catches the cuttings and plaster while the cut is being made.

3 $\frac{1}{2}$ " dia. tool for 3 $\frac{1}{4}$ " dia. box with 1 $\frac{1}{2}$ " depth of blade.....\$6.50
Extra blades, each.....1.50
4 $\frac{1}{4}$ " dia. tool for 4" dia. box with 1 $\frac{1}{2}$ " depth of blade.....7.85
Extra blades, each.....1.80

MISENER ROTARY HACK SAW

GENERAL PURPOSE HOLE-MASTER TOOLS (Multiple-cut Type)

No. 1—Complete with 11 sizes of blades which cut actual diameters from 1 to 3 $\frac{1}{2}$ inches (with $\frac{1}{4}$ " graduations in diameters). Depth of blades $\frac{3}{4}$ inch*.

Type B—for bit brace.....\$17.50
Type P—power tool.....17.50
Type R—ratchet handle attachment.....19.00
Extra set of blades.....7.15

No. 3—Complete with 6 sizes of blades which cut actual diameter from $\frac{3}{4}$ to 2 inches (with $\frac{1}{4}$ " graduations in diameters). Depth of blades $\frac{3}{4}$ inch*.

Type B—for bit brace.....\$10.50
Type P—power tool.....10.50
Extra set of blades.....3.15

No. 3X AND No. 7 TOOLS

No. 3X—Complete with 7 sizes of blades which cut actual diameters from $\frac{3}{4}$ to 2 $\frac{1}{4}$ inches (with $\frac{1}{4}$ " graduations in diameters). Depth of blades $\frac{3}{4}$ inch*.

Type B—for bit brace.....\$11.50
Type P—power tool.....11.50
Extra set of blades.....3.75

No. 7—Complete with 11 sizes of blades which cut actual diameters from 2 to 7 inches. Depth of blades 1 inch*.

Type B—for bit brace.....\$24.00
Type P—power tool.....24.00
Type R—ratchet handle attachment.....25.50
Extra set of blades.....14.45

*Cuts made are $\frac{1}{4}$ -inch less than blade depth.

Replacement Blades No. 120 for Hole-Master Multiple Blade Tools

Blades for No. 1 Tool—diameters from 1" to 3 $\frac{1}{2}$ " only.

(With $\frac{1}{4}$ " graduations in diameters.)

Blades for No. 3 Tool—diameters from $\frac{3}{4}$ " to 2" only.

(With $\frac{1}{4}$ " graduations in diameters.)

Blades for No. 3X Tool—diameters from $\frac{3}{4}$ " to 2 $\frac{1}{4}$ " only.

(With $\frac{1}{4}$ " graduations in diameters.)

Blades for No. 7 Tool—diameters from 2" to 7" only.

(With $\frac{1}{2}$ " graduations in diameters.)

Blade Depth	Dia. Sizes				10 Teeth to Inch			
	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{3}{4}$
$\frac{3}{4}$ "	.45	.45	.55	.55	.55	.60	.60	.65
1"	.75	.75	.80	.80	.85	.90	.95	.95
1 $\frac{1}{2}$ "	1.25	1.25	1.25	1.35	1.35	1.35	1.40	1.45
2 $\frac{1}{4}$ "				1.65	1.75	1.85	1.95	2.10

Blade Depth	Dia. Sizes				10 Teeth to Inch			
	3, 3 $\frac{1}{4}$	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6	7
$\frac{3}{4}$ "	.85	.85	1.05	1.05	1.30	1.30	1.45	1.45
1"	1.05	1.05	1.25	1.35	1.40	1.50	1.60	1.75
1 $\frac{1}{2}$ "	1.50	1.50	1.80	1.80	1.95	2.05	2.15	2.35
2 $\frac{1}{4}$ "	2.15	2.25	2.45	2.45	2.60	2.70	2.70	3.10

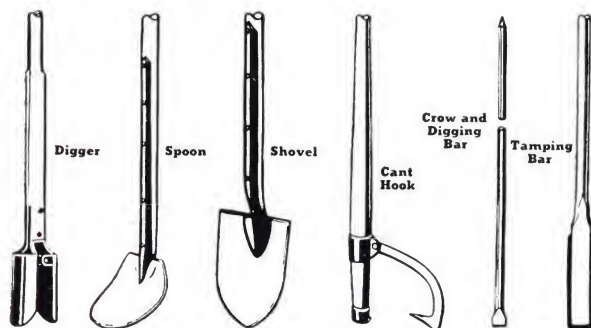
Misener SPEEDEX High Speed Tools and Extra Blades are available in graduated fractional diameter sizes from $\frac{1}{8}$ inch to 8 inch; blade depths 1 inch and 1 $\frac{1}{2}$ inch at prices higher than for standard tools and extra blades.

Single-cut tools for every purpose available. Fractional diameters $\frac{5}{8}$ " to 15", with replacement blades. Prices on request.

Special Hole-Cutting Tools made to order. Prices on request.

Important—The Misener Rotary Saw increases the range of a $\frac{1}{2}$ -inch electric drill to 3 $\frac{1}{2}$ inches, and a $\frac{5}{8}$ -inch electric drill to 7 inches.

L-M OSKOSH TOOLS



Pike Pole

Digger with Split Handle			Octagon Crow Digging Bar		
Cat. No.	Length Ft.	Wt. Lbs. Each	2" chisel on one end, pointed on the other.		
OS-2050	8	13	Cat. No.	Size In.	Lgth. Ft. Lbs. Each
Spoons with Maple Handles			OS-1061	1	7 20
OS-859E	7	10	OS-1062	1	8 23
OS-860E	8	10	OS-1063	1 1/4	7 26
OS-861E	9	11	OS-1064	1 1/4	8 28
OS-862E	10	12	OS-1065	1 1/4	9 31
Crooked Shovels with Maple Handles			Heavy Tamping Bars*		
OS-874	7	8	Cat. No.	Length Feet	Wt. Lbs. Each
OS-875	8	9	OS-1054	7	13
Cant Hooks with Maple Handles			OS-1055	8	15
Cat. No.	Size Ins.	Wt. Lbs. Each	OS-1056	9	17
OS-188A	2 1/4 x 4	7	Standard Light Pike Poles		
OS-189A	2 1/4 x 4 1/2	8	Handle 2" dia., pike projects 4 inches.		
OS-188	2 1/2 x 4	8	OS-805	10	6
OS-189	2 1/2 x 4 1/2	8	OS-806	12	8
			OS-807	14	10
			OS-808	16	11

*Handle measures 1 1/2 inches in diameter. The head is faced with a heavy steel shoe measuring 1/2 inch in thickness. The size of the tamping face is 1 1/4 inches wide by 3 1/2 inches long.

KLEIN TOOLS

NO. 1802-30 SELF-LOCKING TYPE



Furnished complete with light galvanized steel shell blocks, fitted with snubbing hook to lock load in any position, and 25 feet 3/8-inch manila rope. To lock the load, it is only necessary to pull the luff rope under the hook; to release, simply pull the rope. Weight each, 3 pounds.

Price, No. 1802-30 Troublemakers' Blocks.....\$10.50

No. 1802-30-S as above but with swivel anchor hook 259..... 11.00

SELF-LOCKING BLOCK TACKLE

This set of blocks is identical with No. 1802-30 set except that the snaps are "guarded." The nose of each hook has been lengthened to extend over the latch or keeper.

Furnished with 25 ft. 3/8-inch 4-strand manila rope and detachable hook No. 258.

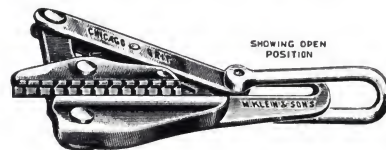
Price, No. H-1802-30 Block Tackle.....each \$12.50

No. H-1802-30-S with 259 swivel anchor hook 13.00

KLEIN TOOLS

"CHICAGO" GRIPS FOR INSULATED WIRES

With "Saw-Tooth" Upper Jaw

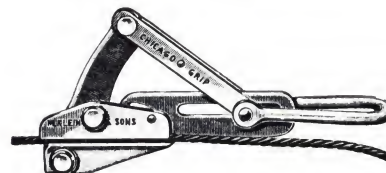


The 1611 series is similar to the 1613 series in construction but the necessary extra width in the jaws is "lipped" out to avoid unnecessary weight. The upper jaw has "saw-tooth" gripping notches.

Cat. No.	Max. Wire Size B&S	Min. Wire Size B&S	Max. Open. In.	Safe Load Lbs.	Price Each
1611-20	4 Solid	10 Solid	.50	2200	\$8.00
1611-30	1 Solid	6 Solid	.56	3500	10.00
1611-40	2/0 Strd.	1 Solid	.75	3750	15.50
1611-50	4/0 Strd.	2/0 Strd.	.94	3750	15.50

IMPROVED "CHICAGO" GRIP

For Messenger, Guy Strand and Conductors Up to 1/2-Inch Diameter

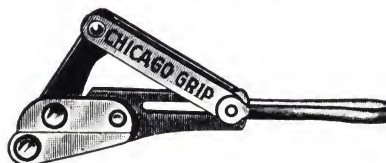


Designed to provide in one tool a grip to handle almost every requirement on the usual job. The jaws have been lengthened and the leverage increased. No. 1628-5B has bronze-lined jaws to prevent slippage. For "all purposes" on any strand or solid wire up to 1/2-inch diameter with load up to 8000 pounds.

Cat. No.	Description	Price Each
1628-5B	With Bronze-Lined Jaws	\$19.50
1628-5	As above but without bronze lining jaws	15.50
1628-5H	As above but with safety latch.....	19.50

"CHICAGO" GRIPS FOR BARE WIRES

(Solid and Strand)



Main body piece and lever are forged steel. Draw parts are of wrought steel. Gripping jaws are machined smooth. Rivets are machine-turned and workmanship throughout is first class.

Cat. No.	Max. Wire Size B&S	Min. Wire Size B&S	Max. Open. In.	Safe Load Lbs.	Price Each
1613-30	6 Solid	12 Solid	.22	1500	\$5.00
1613-30B	As above but bronze lined jaws				7.50
1613-40	0 Strd.	10 Solid	.44	2250	8.00
1613-40B	As above but bronze lined jaws				13.00
1613-40H	Same as 1613-40 but with safety latch				11.00
1613-50	4/0 Strand	6 Solid	.62	4000	14.00
1613-50B	As above but bronze lined jaws				23.00

BUCKINGHAM LINEMEN'S SAFETY EQUIPMENT

BUCKINGHAM PROTECTO GRIPS



These practical grips make electricians' and linemen's pliers easier to handle. Dielectric strength of these plastic grips add a factor of safety. Not a substitute for rubber gloves. For 6-, 7-, and 8-inch pliers.

Price, Nos. 8006, 8007, 8008.....per pair **\$0.75**

BUCKINGHAM ELECTRICIAN'S BELT



Made of latigo leather, 1½ inches wide. Fitted with standard nickel plated buckle, snap, tape-holder, and loops for flashlight, pliers, etc. Supports various Buckingham tool pouches.

Price, No. 1285 Belt.....each **\$2.75**

BUCKINGHAM FLOATING TOOL BELT

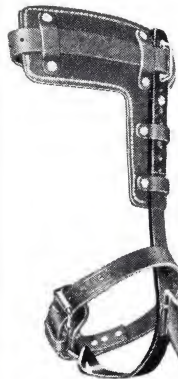


This floating tool belt, a preference with many linemen and utilities, is made of tan harness leather and lined with soft chrome lace leather. No metal fasteners contact the body. Body of belt is 4 inches wide tapered slightly toward ends. 1¼-inch tool strap is formed into five loops. Floating feature prevents closing of loops with belt under tension. Fitted with quick action knife snap, dee ring and tape thong.

Cat. No.	Description	Price Each	
		Without Tool Pouch	With 4023 Tool Pouch
1056	"Easy" Belt	\$10.50	\$12.10

BUCKINGHAM LINEMEN'S SAFETY EQUIPMENT

BUCKINGHAM ADJUSTABLE CLIMBERS No. 9205



Adjustable Climbers are quickly and easily adjusted from size 15 to size 18½-inch by a oval head set screw and lock washer. Copper oval head rivets are also supplied. The climbers are constructed with an adjustable steel sleeve. These Climbers maintain all the desirable qualities of the Buckingham Climbers.

This advanced climber design enables utilities to fit any and all linemen from a smaller stock of bank climbers. Ideal as extra climbers for the service truck, plant, or sub station because they will fit any worker.

Replaceable gaffs are available. Weight, climbers only, per pair, 3 lbs. 2 oz. Shipping weight, Climbers with straps and pads, per 12 pair, 59 lbs.

Price, No. 9205 Adjustable Climbers, complete with straps and pads.....per pair **\$13.90**



BUCKINGHAM DELUXE CLIMBER PAD

Made from high grade leather, padded with rubberized wool and backed with chrome leather. Protects the calf of the leg — wing of pad folds over shin preventing climber from sliding back. Right and left. Size 8x7 inches.

Price, No. 3122 Deluxe Climber Padpair **\$2.80**

BUCKINGHAM UNASSEMBLED FOOT STRAPS



These are a special two-piece strap designed for attachment on climbers with rings. Rivets and burrs furnished.

Price, No. 2134 Foot Strapspair **\$1.50**

BUCKINGHAM CLIMBER STRAPS



Furnished in finest quality harness or latigo leather. (Specify choice of leather when ordering.)

Cat. No.	Description	Size Inches	Price Pair
2234	Leg Strap	1 x 22	\$1.60
2434	Foot Strap	1 x 24	1.65
2235	Leg Strap	1¼ x 22	2.00
2435	Foot Strap	1¼ x 24	2.25

BUCKINGHAM LINEMEN'S SAFETY EQUIPMENT

HEAVY DUTY SAFETY STRAPS



Popular because of heavy construction and wearing qualities. An extra long layer of leather is stitched to one end of the safety and over the roller (double back) making an exceptionally strong and durable strap. Stitching is thoroughly embedded in the leather, lock-stitched, and hot waxed. Size, 2 inches by 5 feet by 10 inches. Weight per strap, 3 lbs.; shipping weight per doz., 45 pounds.

Price, No. 3055 Safety Strap.....each \$9.00

TOOL BELT No. 1255



This unusually serviceable belt consists of a 2½-inch outer and inner layer tapered to 2 inches at the billet and buckle ends. Attached to the outside layer of the belt is a 1¼-inch strap formed into six tool loops. Firmly stitched and riveted to insure long usage. Weight 3 lbs., 12 ounces. Shipping weight per doz., 56 pounds.

Price, No. 1255 Tool Belt.....each \$7.00

No. 4024 TOOL POUCH



Combination plier and knife pouch, 11½ x 10½ inches. Made from top grade harness leather. Securely riveted. Will fit all belts 2 inches and under in width.

Weight 7 oz. Shipping weight, per doz., 6 pounds.

Price, No. 4024 Tool Pouch
.....each \$1.40

No. 4089 SKINNING KNIFE POUCH

This knife pouch is designed to hold the skinning knife as a safety precaution against personal injury, and is a means of preventing accidental damage to other tools or harness.

Weight 5 ounces. Shipping weight, per doz., 4 pounds.

Price, No. 4089 Skinning Knife
Poucheach \$1.00



BUCKINGHAM LINEMEN'S SAFETY EQUIPMENT

No. 5041 INSTALLERS' TOOL POUCH



Tool Pouch with one large pocket and one wing pocket.

Will hold a variety of small tools. 5½ x 9½ inches, it will fit on any belt up to 2 inches in width. Made of top-grade harness leather securely riveted and stitched. Used extensively by telephone installers.

Weight 7½ oz. Shipping weight per 12, 7 pounds.

Price, No. 5041
Installers Tool
Pouch.....each \$2.85

BUCKINGHAM LINEMAN'S WORK GLOVE

Made from genuine imported goat skin. They are soft and pliable and will dry out soft after becoming wet. Gloves are triple lock-stitched with hot waxed linen thread and have Davey tips and large reinforcements around base of thumb. They also have a heavy stiff cuff which affords maximum protection when climbing poles.

Standard glove No. 7158 has a 5 inch cuff, also available with a 7 inch cuff or wrist length No. 7300. Furnished in sizes 9, 10 and 11. In ordering specify size required.

Cover glove No. 7400 (for rubber gloves) available in medium and large sizes.

Prices on request.



BUCKINGHAM THREAD CLEANERS



No. 6103

Damaged threads of any size or pitch, on any type of bolt, can be reconditioned quickly and easily with these tools. They restore flattened, distorted or badly rusted, right- or left-hand threads, so that nuts can be removed or put on with ease.

These tools can be used by any mechanic, repairman or maintenance worker in the shop or in the field. Easily set and held to size by a single locking device on the knurled handles. Two types of blades are available for No. 6106 only — one set for threads as coarse as 6 to the inch or coarser, and the other for all finer threads.

Cat. No.	Weight Lbs.	Size, Inches		Swing Inches	Price Each
		Min.	Max.		
6103	1¼	¼	to 1	7	\$6.00
6104	2	1	to 2 ⅝	10	11.00
6106	5¾	2	to 4	9	25.00
6304	2	1	to 2	10	16.00
6204	2¼	1	to 2 ⅝	9 ½	19.00
6306	5¾	1	to 3	9	31.00

BUCKINGHAM LINEMEN'S SAFETY EQUIPMENT



BUCKINGHAM BUG BAG

Made from heavy quality leather. With one of these roomy bags on your belt it is possible to carry loose tools and pick them up with gloved hands. Size, 9x7x3½ inches deep.

Price, No. 5302 Bug Tool Bag\$2.85

BUCKINGHAM TOOL POUCHES

No. 4652—One large, and two smaller deep pockets for pliers, rule, screw-driver, knife, etc. Knife snap optional \$2.10



No. 4652



No. 4650

No. 4650—One large, two small, and two deep wing pockets for various tools. Knife snap optional \$2.50

BUCKINGHAM TOOL POUCHES



No. 4051



No. 4023

No. 4051 — Leather slide-on plier pouch.each \$0.90

No. 4023 — Leather slide-on combination plier, rule and screw-driver pouch..... \$1.60

BUCKINGHAM CLIMBER PADS



No. 3039



No. 3035



No. 3038

Cat. No.	Description	Size Inches	Price Each
3039	2-loop leather pad.....	4 x 4	\$0.90
3239	2-loop felt lined pad....	4 x 4	1.10
3035	3-loop leather pad.....	3¾ x 4¾	1.10
3036	3-loop felt lined pad....	3¾ x 4¾	1.40
3038	3-loop leather pad.....	3¾ x 6¼	1.30

BUCKINGHAM LINEMEN'S SAFETY EQUIPMENT

BUCKINGHAM CANVAS BAG FOR RUBBER GLOVES



8/0 vat-dyed olive drab duck with front, bottom, back and flap made in one piece. Snap for attaching to body belt. Size 15¾x8x5 inches.

Price, No. 5400 Bag for Rubber Gloves...each \$2.30

BUCKINGHAM SKINNING KNIFE



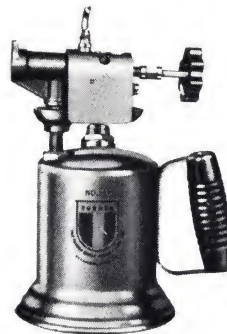
Blade is made from selected alloy steel, individually hardened and tempered. Stout wood handle with loop for belt snap.

Price, No. 7080 Skinning Knife.....each \$1.50

No. 4089 Knife Pouch designed especially for No. 7080 skinning knife is available. Price \$1.00

TURNER BLOW TORCHES

No. 150 BLOW TORCH—QUART-SIZE



Home craftsmen, farmers, tinkers and others who find a blow torch to be a "friend in need" appreciate this lowest-price Turner Torch. The No. 150 is not a "stripped" or "competitive" model. The powerful, blow-proof pump is removable for filling. Inclined, comfortable handle with cast bronze brackets; massive, efficient cast bronze burner; lead terne plate steel coated tank.

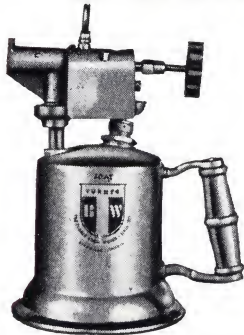
Price, No. 150 (quart size).....each \$7.90

HALF-PINT, SELF-PRESSURE TORCH

Ideal for hobbyists and home craftsmen. Complete with soldering iron rest and wind shield. High-polished brass tank is 3½ inches diameter to assure stability — holds 7½ oz. of fuel. Burns 3½ hours full open. Pressure is maintained by brass wire which conducts heat to tank. Bottom is concave to facilitate filling. No. 59 burns gasoline. No. 60 burns alcohol.



Price, No. 59 ½-Pint (Gasoline)each \$3.90
No. 60 ½-Pint (Alcohol)each 3.90

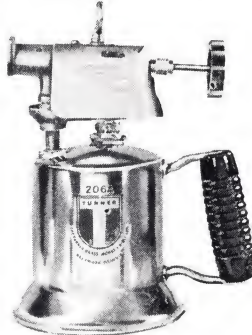
TURNER BLOW TORCHES**No. 30A STANDARD BLOW TORCH**

An unusually fine low-priced blow torch for mechanics, repairmen, etc. Heavy improved burner develops an extremely hot blue flame and will give highly efficient service. Enlargement of orifice prevented by new type needle valve. Sturdy and efficient pump. Highly polished brass tank, Top-Fill. Gasoline fuel. Shipping weight 4½ lbs.

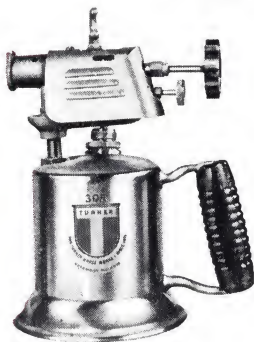
Price, No. 30A (quart size)each **\$9.20**
 No. 25A (pint size)each **9.20**
 No. 27 (quart, bottom fill).....each **9.90**

NO. 206A BLOW TORCH

Powerful torch for professional users. Heavy improved burner develops high heat and gives superior performance in any weather. Automatic cleaning needle and jet-block may be easily replaced after long wear. Cool composition valve wheel. Highly polished seamless brass tank with trouble-free pump. Gasoline fuel.



Price, No. 206A (quart size).....each **\$11.50**

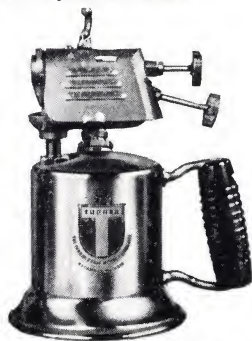
NO. 39A BLOW TORCH

Super torch for professional users. Develops large blue flame and operates perfectly in any weather. Sturdy construction. Wire cleaning needle and orifice block easily replaced after years of wear. Perfect combustion obtained from adjustable air syphoning tube. Drip cup conveniently filled through lower priming valve. Highly polished brass tank with trouble-free pump. Gasoline fuel.

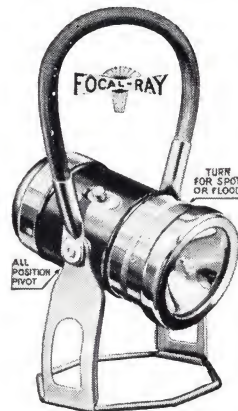
Price, No. 39A (quart size).....each **\$15.00**

No. 92A BLOW TORCH—QUART-SIZE

Experienced precision workers in the factory and on particular sweating and copper-fitting jobs insist on the Turner Double Jet burner of the 92A. Both jets function to produce a soot-free, pencil point "flame-within-a-flame" of terrific intensity, hot enough for light brazing. When idling, the lower jet produces a noiseless "lazy" flame that keeps the torch generated for instant action. For gasoline.



Price, No. 92A (quart size)each **\$16.60**
 No. 95A (pint size)each **16.60**

EMPIRE ELECTRIC LANTERNS**No. 900 "FOCAL-RAY" LANTERNS**

Exclusive "Focal-Ray" adjustment. Change the concentrated spot-beam to a flood light instantly, at the turn of the lens head.

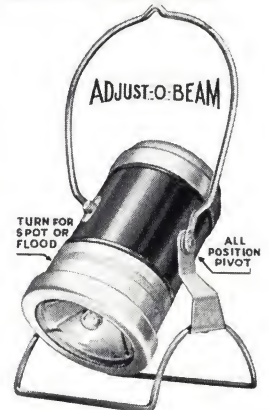
Highly polished non-tarnishing reflector. "All-position" pivot base and handle. Beam the light in any direction. Sliding switch, wireless and waterproof. Comfortable, black plastic handle, non-tipping octagon base, channel uprights. Attractively finished in maroon baked enamel. Polished, electro-plated lens head and cover. Fittings bright plated.

Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Less Battery
900	12	28	\$3.25

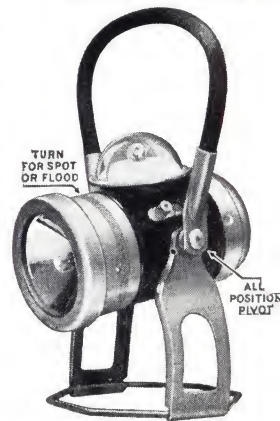
No. 890 "ADJUSTO-BEAM" LANTERN

Focusing made easy. Concentrated beam adjusted from spot beam to flood light by turning lens head. Swivel base permits directing the light to any angle.

Seamless, drawn steel body. Electro-plated, then green enameled. Trimmings and fittings bright plated. Waterproof, wireless, sliding switch. Parabolic reflector, highly polished, non-tarnishing.



Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Less Battery
890	12	26	\$2.65

No. 924 "ADJUSTO-BEAM" LANTERN

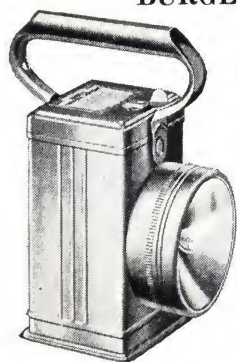
Twin Switches. Light both bulbs at same time, or light separately. The "Focal-Ray" adjustment gives a spot or flood light at the turn of the lens head.

Black plastic handle, non-tipping rigid base. Positive adjustment in any direction with the "all-position" pivot base. Two tone gray finish with polished, electro-plated cover and lens head. Bright plated fittings. Seamless steel body.

Cat. No.	Std. Pkg.	Shpg. Wt. Lbs.	Less Battery
924	12	30	\$3.95

Note: All above Lanterns operate on 6-volt Lantern batteries, and use standard Mazda No. 502 or No. 27 bulbs. Spare bulbs can be carried in compartment in inside cover. All fully guaranteed and individually packed. Supplied with bulb, but less battery.

BURGESS LANTERNS



No. TW2 LANTERN

For general industrial use. Has a long powerful beam. Operates economically from No. 4F2H battery. Easy focusing with lens ring. Steel body, finished in baked-on enamel.

Price, No. TW2 Lantern, less Batteries\$2.85

BURGESS FLASHLIGHTS CLIPPER—2-CELL FLASHLIGHT



Stream-styled maroon enamel and chrome. Pre-focused. Lock-off switch. Uses 2 size 2 cells and lamp No. PR2. Packed six on sales-making display card.

Price, No. 146 Flashlight, less cells.....each \$1.55

No. 148 2-CELL FLASHLIGHT



Sturdy all-metal construction, 2-cell flashlight. Durable maroon finish with sparkling trim. Pre-focused bulb. End cap. Uses 2 size 2 cells. No. PR2 lamp. Packed 25 in corrugated carton with eye-catching display card.

Price, No. 148, less cells.....each \$0.78

No. 248 5-CELL FLASHLIGHT



Ideal for outdoorsmen needing long beam and extra long life. Seamless brass barrel completely chrome plated. Prefocused for sure spot, garter clip, large head. Lock-off switch with flasher position. Uses five Burgess No. 2 cells and No. PR12 lamp.

Price, No. 248, less cells.....each \$3.70

No. 346 BABY TUBULAR



Baby tubular pre-focused light. Brass barrel with chrome and enamel trim. Slide switch. End cap. Uses 2 Burgess size 1 cells and No. PR4 lamp. Packed 6 on sales-making display card.

Price, No. 346, less cells.....each \$1.35

No. 92 PENLIGHT



Carry like a fountain pen. Maroon and chrome finish. Lock-off switch.

Price, No. 92 Penlight, less cells.....each \$0.83

RAY-O-VAC FLASHLIGHTS

Z21P 2-CELL PENLIGHT



Uses 2 No. 7R batteries and No. 222 bulb. Standard package 24; weight 2¼ lbs.

Price, No. Z21P Penlight, less batteries.....\$0.80

Z22B 2-CELL BABY SPOTLIGHT



Uses two 1LP batteries and No. PR4 bulb. Standard package 24; weight 6¼ lbs.

Price, No. Z22B Spotlight, less batteries.....\$1.60

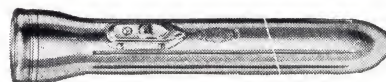
Z22R 2-CELL SPOTLIGHT



Uses two 2LP batteries and No. PR2 or PR6 bulb. Standard package 24; weight 9¼ lbs.

Price, No. Z22R Spotlight, less batteries.....\$1.60

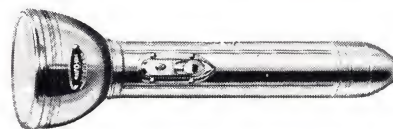
Z32R 3-CELL SPOTLIGHT



Uses three 2LP batteries and No. PR3 or PR7 bulb. Standard package 24; weight 11 lbs.

Price, No. Z32R Spotlight, less batteries.....\$1.95

Z33R 3-CELL SEARCHLIGHT



Uses three 2LP batteries and No. PR3 or PR7 bulb. Standard package 24; weight 21 lbs.

Price, No. Z33R Searchlight, less batteries....\$2.25

Z53R 5-CELL SEARCHLIGHT



Uses five 2LP batteries and No. PR12 bulb. Standard package 12; weight 12¼ lbs.

Price, No. Z53R Searchlight, less batteries....\$2.98

RAY-O-VAC FLASHLIGHTS

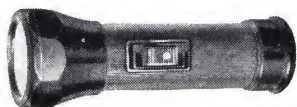
BR22 PREFOCUSED SPOTLIGHT



Has rubber end cap and hood and fibre barrel. Uses PR2 or PR6 bulb and two 2LP batteries. Standard package, 24; weight 11 lbs.

Price, No. BR22 Spotlight, less batteries.....\$1.60

G22 2-CELL PREFOCUSED SPOTLIGHT



Uses PR2 or PR6 bulb and two 2LP batteries. Standard package 24; weight 15 lbs.

Price, No. G22 Spotlight, less batteries.....\$2.60

DUAL ACTION SAFETY HEAD FLASHLIGHTS



Cat. No.	Description	Bulb Used	Battery Used	Wt. Lbs. Std. Pkg.	Price Less Battery
BM22	2-Cell	PR2—PR6	2—2LP	15½	\$3.45
BM32	3-Cell	PR3—PR7	3—2LP	18½	4.20

RAY-O-VAC BATTERIES

RAY-O-VAC No. 2LP LEAKPROOF FLASHLIGHT BATTERY



Size "D" Leakproof cell—for standard sized flashlights. Ray-O-Vac Leakproof batteries require no dating because they stay fresh for years and years. They guarantee any flashlight regardless of make against sticking, plugging or corrosion from leakage. They last longer in actual use.

Price No. 2 LP Leakproof Flashlight Battery\$0.125

RAY-O-VAC LEAKPROOF No. 1 LP

Size "C" Leakproof cell—for baby or junior sized flashlight.

Price, No. 1 LP Leakproof Flashlight Battery\$0.125



RAY-O-VAC BATTERIES

RAY-O-VAC No. 941 LANTERN BATTERY



Tests by users prove the lowest possible cost per hour service. Laboratory controlled to maintain quality. Exceeds U. S. Government standards of service for this type of battery.

Standard on most railroads and wherever low service costs are vital.

Price, No. 941 Lantern Battery.....each \$0.80

RAY-O-VAC 7R PENLIGHT BATTERY

This battery is manufactured of highest quality ingredients and has been accepted as standard equipment by many manufacturers of original equipment using this size cell.

Price, 7R Penlight Battery.....each \$0.10



RAY-O-VAC No. 6 TELEPHONE BATTERY

Specially compounded mix for telephone service. High sustained voltage over long periods of time. Users acclaim economy and dependability.

Price, No. 6 Telephone Batteryeach \$0.65

WESTINGHOUSE FLASHLIGHT LAMPS



TL-3
Bulb
Min.
Screw
Base



G-3½
Bulb
Min.
Screw
Base



G-4½
Bulb
Min.
Screw
Base



FE-¾
Bulb
Min.
Screw
Base



G-5½
Bulb
Min.
Screw
Base



B-¾
Bulb
Min.
Screw
Base

Lamp No.	Bulb	Volts	Amps.	Bead Color	Use With Cell	Price Each
*112	TL-3	1.1	.22	Pink	1-AA	\$0.10
*222	TL-3	2.2	.25	White	2-AA	.10
233	G-3½	2.3	.27	Purple	2-C	.10
131	G-3½	1.3	.10	White	1-D	.10
PR4	B-3½	2.3	.27	Lt. Green	2-C	.14
PR2	B-3½	2.4	.50	Blue	2-D	.14
PR3	B-3½	3.6	.50	Green	3-D	.14
PR6	B-3½	2.5	.30	Brown	2-D	.14
14	G-3½	2.5	.30	Blue	2-D	.10
PR7	B-3½	3.8	.30	Pink	3-D	.14
13	G-3½	3.8	.30	Green	3-D	.10
*502	G-4½	5.0	.15	Blue	4-F	.11
605	G-4½	6.0	.50	Brown	5-D	.11

PR lamps have S-C. Miniature flange base — all others have miniature screw base.

*No voltage rating appears on these lamps — they are identified by bead color.

The cell designations given and following sizes are those standardized by the Bureau of Standards. The dimensions do not include the cell wrapper. AA-cells ½" dia., 1¾" high; C-cell 1½" dia., 1½" high; D-cell 1¼" dia., 2¼" high; F-cell 1¼" dia., 3¾" high; No. 6 cell 2½" dia., 6" high.

BURGESS FLASHLIGHT BATTERIES



Cat. No.	Size	Volts	Description	Std. Pkg.	Price Each
2	Size 2	1½	Standard tubular cell..	48	\$0.10
1	Size 1	1½	Baby tubular cell.....	12	.10
Z	Size Z	1½	Pen-Light Uni-Cell.....	12	.075

BURGESS BATTERIES INDUSTRIAL "A" BATTERIES



Cat. No.	Size	Voltage	Screw Terminals	Size in Inches	Std. Pkg.	List Price
252H	2F2H	3	Ins. knobs	2½ x 2½ x 4 1/8	5	\$0.90
4FH	4FH	1½	Knurled nuts	2½ x 2½ x 4	12	.70
B2BP	F2BP	3	Knurled nuts	1½ x 1½ x 2 1/8	6	.95

BURGESS HEARING AID BATTERIES For Vacuum Tube Instruments "A" BATTERIES



1ES 2ZE 2ES TE

Every Burgess A Battery has been built to provide a maximum of operating economy for the hearing aid user. Packed in the familiar black and white stripes for instant identity of Burgess quality.

No. 1ES—Baby tubular size. 1½ volts. Size 1½ x 3/8 inches diameter. Fits battery clips of all popular typeseach \$0.10

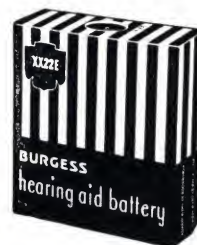
No. 2ES—Standard tubular, 1½ volts. Size 2½ x 1½ inches. Heavy duty mix affords users longer, economical serviceeach \$0.10

No. TE—Popular plug-in, 1½ volt A cell. Fits all standard pouches on most instruments. Light weight yet provides long, dependable service. Size 3/8 x 1½ inches.....each \$0.27

No. 2ZE—1½ volts. Two heavy duty penlight type cells. Brass cap terminals. For self-contained instruments. Size 3/8 x 1¼ x 1½ inches. Weight 1 ounceeach \$0.25

BURGESS HEARING AID BATTERIES

"B" BATTERIES



XX15E

XX22E

XX30E

Burgess hearing aid B batteries are made with an exclusive new process to give long, more reliable service on all types of hearing aids. Available in all popular sizes.

No. XX15E—22½ volt B. An ideal auxiliary battery for user's comfort. Equipped with standard 3-hole socket. Can replace any make battery of equivalent voltage. Size 1½ x 3/8 x 3 1/8 inches. Weight each 4½ oz.....each \$1.45

No. XX22E—33 volt B. Designed to provide those who need only low amplification with a maximum of comfort and economy. Fits pouches of all hearing aid instruments. Equipped with standard 3-hole socket. Can replace any make of battery of equivalent voltage. Size 2½ x 3/8 x 3 1/8 inches. Weight each, 6 oz.....each \$1.65

No. XX30E—45 volt B. Most popular size with hearing aid users. Light in weight with maximum economy. Equipped with standard 3-hole socket. Fits pouches of all hearing aid manufacturers. Can replace any battery of equivalent voltage. Size 2½ x 3/8 x 3 1/8 inches. Weight each 7 oz.....each \$1.90

For Self-Contained Instruments "B" BATTERIES



U10E

U15E

U20E

U Series

No. U10E—Midget 15 volt B. Flat brass contacts. Size 1½ x 1/8 x 3/8 inches. Weight 20 gramseach \$0.85

No. U15E—Midget 22½ volt B. Flat brass contacts. Size 1½ x 1/8 x 3/8 inches. Weight 29 gramseach \$1.05

No. U20E—Midget 30 volt B. Flat brass contacts. Size 2½ x 1/8 x 3/8 inches. Weight 37 gramseach \$1.25

K Series

No. K10E—15 volt B. Flat terminal contacts. Size 7/8 x 1¼ x 1½ inches. Weight 1½ oz.....each \$0.90

No. K15E—22½ volt B. Flat terminal contacts. Size 7/8 x 1¼ x 2½ inches. Weight 2¼ oz.....each \$1.40

No. K20E—30 volts B. Equipped with flat terminal contacts. Size 1½ x 1¼ x 2½ inches.....each \$1.65

BURGESS BATTERIES

PORTABLE "A" BATTERIES



Cat. No.	Voltage	Size in Inches	Std. Pkg.	Price Each
8FL	1½	3 3/8 x 1 1/8 x 10 1/16	3	\$1.75
4F	1½	2 3/8 x 2 3/8 x 4 3/8	6	.95
6F	1½	4 3/8 x 2 3/8 x 4 1/8	3	1.30
8F	1½	3 3/8 x 2 3/8 x 5 1/2	2	1.65
2F4	6	3 1/8 x 2 3/8 x 5 3/8	1	1.75
2F4L	6	3 3/8 x 1 7/8 x 10 1/16	2	1.85
F4PI	6	2 3/8 x 2 3/8 x 4 1/8	6	.94
2F	1½	2 1/8 x 1 7/8 x 4 3/8	1	.56
4FL	1½	3 3/8 x 1 7/8 x 5 1/2	1	.90
G3	4½	4 x 1 3/8 x 4 1/8	6	.75
T5	7½	2 1/8 x 2 1/8 x 3 3/8	3	1.25
F3	4½	3 1/8 x 1 3/8 x 4 3/8	6	.75
Z4	6	1 3/8 x 1 3/8 x 2 1/8	12	.50
B5	7½	3 7/8 x 3 1/8 x 2 1/8	6	.95
C5	7½	2 3/8 x 1 3/8 x 3	6	.95
2D	1½	2 1/8 x 1 3/8 x 2 3/8	12	.45
2R	1½	1 1/8 (Diam.) x 2 3/8	48	.10

PORTABLE "B" BATTERIES



XX30 M30 A30 XX45



A60 B30 W30 W20PI W30PI

Cat. No.	Voltage	Size in Inches	Std. Pkg.	Price Each
B30	45	4 1/8 x 2 1/8 x 5 3/8	12	\$2.15
M30	45	3 1/8 x 1 3/8 x 5 1/2	12	2.15
A30	45	3 1/8 x 2 1/8 x 4 5/8	6	2.15
XX45	67½	2 3/8 x 1 3/8 x 3 3/8	12	2.45
XX30	45	2 1/8 x 3/8 x 3 3/8	12	1.75
A60	90	4 3/8 x 3 1/8 x 4 1/8	6	4.35
W20PI	30	1 7/8 x 1 1/4 x 4 3/8	6	2.00
W30	45	1 3/8 x 2 1/8 x 3 3/8	6	2.00
W30PI	45	3 x 1 1/8 x 4 3/8	6	2.05
N60	90	3 3/8 x 1 1/4 x 3 1/8	6	3.25
K45	67½	2 3/8 x 1 3/8 x 2 3/8	12	2.45

BURGESS BATTERIES

"A" & "B" PACKS FOR PORTABLE RADIOS



4GA42 F4B60



T5Z50 5DA60



T6Z60 6TA60

Cat. No.	Voltage	Size	Adapter Plug No.	List Price
6TA60	1½ A, 90B	9 1/8 x 2 1/8 x 4 7/8	120	\$5.15
5DA60	1½ A, 90B	5 3/8 x 2 1/8 x 6 7/8	120	4.80
6FA60	1½ A, 90B	11 1/8 x 6 3/4 x 1 5/8	2745	4.80
4GA42	1½ A, 63B	9 x 2 x 4 3/4	2745	3.50
G6B60	9A, 90B	13 7/8 x 4 1/8 x 2 1/8	2908	5.35
F4B60	6A, 90B	10 5/8 x 2 3/4 x 5	2776	.....
4GA41	1½ A, 61 1/2 B	9 1/8 x 3 3/8 x 2 1/8	2745	3.90
G5A42	7½ A, 63B	9 3/8 x 2 3/4 x 4 3/8	2900	4.20
F5A60	7½ A, 90B	11 1/8 x 4 1/8 x 2 1/8	2900	4.70
4TA60	1½ A, 90B	8 1/8 x 2 3/4 x 4 3/8	120	5.25
4FA60	1½ A, 90B	7 x 3 1/2 x 4 3/8	5705	5.05
G4B60	6A, 90B	10 3/4 x 2 1/8 x 5	M64	4.85
2GA60	1½ A, 90B	4 7/8 x 9 1/2 x 2 1/8	120	.....
F6A60	9A, 90B	2 3/4 x 9 1/4 x 4 1/8	.....	4.80
G6M60	9A, 90B	3 3/8 x 10 3/8 x 4 1/8	.....	4.80
T5Z50	6, 7 1/2 A, 75B	8 1/8 x 3 3/8 x 2 1/8	.....	5.25
T6Z60	7 1/2 A, 90B	9 1/8 x 2 1/8 x 3 3/8	.....	5.75

FARM "A & B" BATTERIES



17GD60

Cat. No.	Voltage	Size in Inches	Std. Pkg.	List Price
17GD60	1½ A, 90B	15 1/8 x 4 3/8 x 7 1/8	1	\$7.50
18GD60	1½ A, 90B	5 5/8 x 6 3/4 x 12 1/8	1	7.95

WAYNE ELECTRIC WATER HEATERS ROUND AND TABLE TOP MODELS—SERIES WR AND WT

Round Models in 20, 30, 40, 52, 66 and 82-Gallon Sizes
Table-Top Models in 30 and 40-Gallon Sizes



SINGLE OR DOUBLE HEAT ELEMENTS

10-Year Warranty on All Models Equipped
with Waynode Rod

Wayne heaters excel in long life and economy operating features. Popular sizes have ALL desirable features of higher priced heaters at no extra cost. Extra-heavy, electric-welded galvanized steel tanks. All bronze internal waterways. Pressure safety fitting on drain nipple. Cold water intake baffle. Hot water heat trap. 3¼-inch Fiberglas insulation. 100 per cent immersed heat elements. All models are available with single or double heat elements with or without interlocking thermostats to meet all utility and code requirements. Pressure relief valve may be installed on either cold inlet or outlet piping.

INFRA-RED BAKED WHITE ENAMEL EXTERIOR

Table-Top model matches kitchen appliances. Black recessed base provides toe space. All electrical and water connections are readily accessible under the porcelain top.



Dimensions

	Model	A	B	C	D		Gal. Cap.	Shpg. Wgt.
ROUND MODELS	WR-20S	20½"	39½"	3"	33½"	TABLE-TOP HEATER WIDTH	20	137
	WR-20D	20½"	39½"	3"	33½"		20	137
	WR-30S	20½"	55½"	3"	49½"		30	186
	WR-30D	20½"	55½"	3"	49½"		30	186
	WR-40S	24½"	46¾"	3"	40½"		40	206
	WR-40D	24½"	46¾"	3"	40½"		40	206
	WR-52S	24½"	55½"	3"	49½"		52	223
	WR-52D	24½"	55½"	3"	49½"		52	223
	WR-66S	24½"	68½"	3"	62¾"		66	281
	WR-66D	24½"	68½"	3"	62¾"		66	281
TABLE TOP	WT-30S	25"	36"	4"	4"		82	315
	WT-30D	25"	36"	4"	4"		82	315
	WT-40S	25"	36"	4"	4"		82	315
	WT-40D	25"	36"	4"	4"		82	315

A=Diameter or depth. B=Height.
C=Toe Space. D=Floor to Hot Tap.

ROUND MODEL INSTALLS IN ANY BASEMENT, KITCHEN OR UTILITY ROOM

The sturdy steel-jacketed round model is beautifully finished in white enamel, trimmed in forest green to add beauty in any home.

Built to highest quality standards of carefully inspected, approved materials. NEMA standard, acceptable to all utility companies.



WAYNE GAS WATER HEATERS SERIES WHG—30 AND 40 GALLONS

Wayne Gas Water Heaters are constructed of extra-heavy gauge materials. The tank is copper-bearing steel, hot-dipped AFTER electric welding to insure completely protected tank head joints. Pure molten zinc is heavily applied for lasting tank operation. The jacket is rigid, cold-rolled cabinet steel for lifetime service.

This universally popular Wayne Automatic Gas Water Heater is beautifully finished in baked white enamel with forest green trim. Every ultramodern feature is included. Newest, instant-acting, adjustable thermostatic controls provide record gas economy and FAST heat recovery. The extra-size intake baffle spreads incoming water over the heated tank area for rapid heating. Extra-thick insulation keeps water hot. The single-port burner cannot clog. A balanced air-gas mixture is made possible with a Bunsen-type adjuster, providing a clean hot flame. Approved for natural, manufactured or mixed gas. When used with L-P (bottled) gas, 100 per cent shutoff safety controls should be installed.

Cold and Hot Connections at Top of Heater for Easy Piping

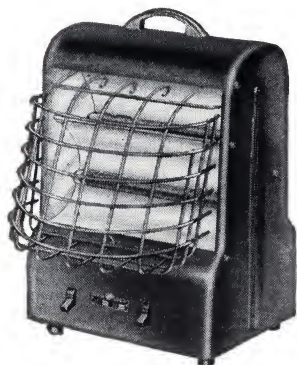
Inlet and outlet are ¾-inch female connections flush with top of jacket, 8 inches apart, center to center. Pressure relief valve may be installed on "T" on either connection. Heat is self-leveling and self-ventilating with three formed bosses in base. Rate at 25,000 BTU/Hr. input with recovery capacity of 60 degrees rise at 35 gallons per hour.

Dimensions—Series WHG

Model Number	Dimensions in Inches							Shipping Weight
	Diameter	Height Casing	Overall Height	Flue Diam.	Cold Water Connection	Hot Water Connection	Gas Connection	
WHG-30	18½"	49¾"	57¾"	3"	¾"	¾"	1½"	170
WHG-40	18½"	62.4"	70.5"	3"	¾"	¾"	1½"	192

MARKEL HEETAIRES

SERIES 195-196 PORTABLE FAN-GLO HEETAIRE



The first portable Heater with both kinds of heat. The Fan-Glo Heetaire does both — it gives warm comfort in a limited area first — the area of use — it produces and distributes quickly:

1. Abundant scientifically - reflected infra-red rays — to heat all the humans and furniture and walls in its rays quickly.
2. Abundant fan-forced heated air —

fan-forced to heat all air around the humans and the entire room quickly.

Two Heaters in One—There are two Neo-Glo Elements in the double action Fan-Glo Heetaire. One is mounted in front of a chromium reflector to provide radiant heat. The other element heats the cool air which the fan draws in at the base of the Heetaire.

High-baked enamel finish. Induction type motor for 50-60 cycles A.C. No radio interference. Size, 15½ inches high; 9½ inches wide; 12 inches deep. Wired: 6-ft. of approved cord and plug.

Cat. No.	Volts	Cycles	Watts	Car-ton	Approx. Shpg. Wt. Lbs.	Price Each
195	115	50-60	1320	1	10	\$21.95
196	115	50-60	1650	1	10	21.95
195KT	With Automatic Control					32.95
196KT	With Automatic Control					32.95

SERIES 200 BUILT-IN WALL RADIANT HEETAIRE

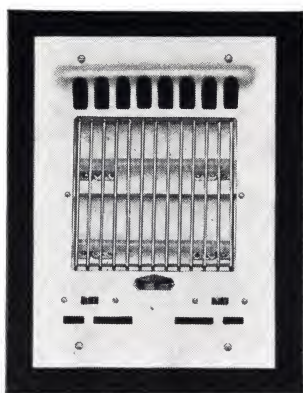
Good looking, compact, easily installed, these popular Markel Heetaires are equipped with the Neo-Glo elements and chromium reflectors for cheerful, radiant heat.

Finish: Highly polished Nuchrome.

Reflectors chromium plated, highly polished.

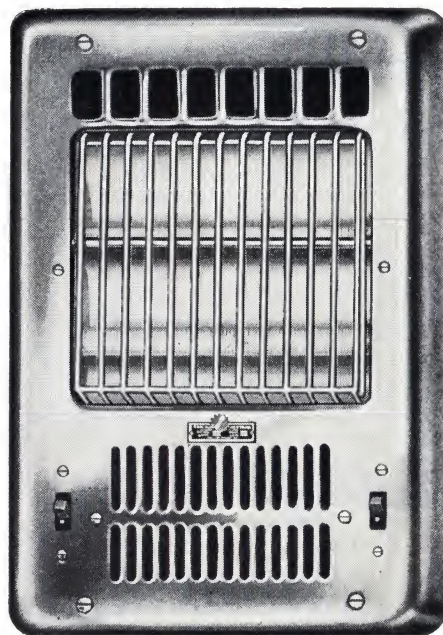
Size: Front—16¼ inches high x 12 inches wide. Box—13¼ inches high x 10½ inches wide x 3 inches deep. No radio interference. Packed one to a carton.

Cat. No.	Watts	Volts AC/DC	No. of Switches	Ele-ments	Approx. Shpg. Wt. Lbs.	Price Each
201	1000	120	1	1	10	\$18.95
205	1250	120	2	2	10	19.95
206	1250	120	1	2	10	18.95
206H	1250	240	1	2	10	18.95



MARKEL HEETAIRES

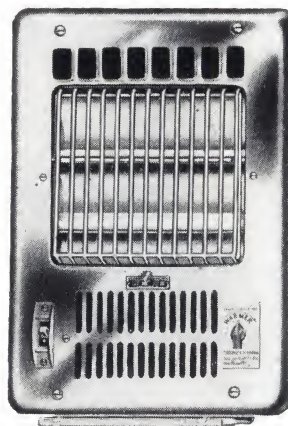
SERIES 230 BUILT-IN WALL FAN-GLO HEETAIRE



The 230 Series Built-In Wall Fan-Glo Heetaire is the first recessed heater built that gives both kinds of heat — abundant infra-red rays plus abundant fan-forced heated air. (Construction and principle are exactly the same as the Portable Fan-Glo Heetaire.)

Highly polished Nuchrome. Ivory enamel, tan enamel finishes. Heetaire front, 12 inches wide x 18 inches high. Heetaire box, 10½ x 15 x 3 inches. Wired, two elements and two switches. One element and fan can be shut off at user's convenience. Motor, 50-60 cycle A.C. only.

Cat. No.	Watts	Volts	Price Each	Cat. No.	Watts	Volts	Price Each
232K	1250	120	\$35.00	H233K	1500	240	\$37.50
H232K	1250	240	35.00	235K	2000	120	40.00
233K	1500	120	37.50	H235K	2000	240	40.00

SERIES 230KT BUILT-IN WALL HEETAIRE
With In-Built Thermostat

Same as the 230 Series Heetaire with thermostat built in. One simple dial automatically controls the Heetaire so that it produces and maintains the temperature from 55° F. to 85° F.

Cat. No.	Volts	Price Each
1250 Watts		
232KT	120	\$52.50
H232KT	240	52.50
1500 Watts		
233KT	120	55.00
H233KT	240	55.00
2000 Watts		
235KT	120	57.50
H235KT	240	57.50

Thermostat and Heetaire are both separately tested and listed under re-examination service by Underwriters' Laboratories.

MARKEL HI-LO HEETAIRE SERIES 140



This powerful, quiet, lightweight portable Hi-Lo Heetaire produces and distributes heat quickly. Cool air passes around the high-quality, long-lived resistance coil wire element that operates at a low temperature, is heated and then fan-driven to heat

all the air around the humans in the room. With its 2-heat switch, model 145K2 operates at either 800 watts (LO) or 1320 watts (HI). Model 146K2 operates at either 1000 watts (LO) or 1650 watts (HI).

Hi-Lo Heetaires—2 Heats

Model No.	Watts	Volts A.C.	Switch	Price Each
146K2	1650/1000	115	Hi-Lo/On-Off	\$11.95
145K2	1320/ 800	115	Hi-Lo/On-Off	11.95

Fan Heetaires—One Heat

Model No.	Watts	Volts A.C.	Switch	Price Each
143K1	1320	115	On-Off	10.95
142K0	1320	115	None	9.95

Note: Fan Heetaires have same casing as Hi-Lo Heetaires.

WILLARD AUTOMOTIVE BATTERIES



The variety of Willard automotive batteries permits selection of the type best suited to the particular requirements of the individual car or truck owner. Used for starting — lighting — ignition. For passenger cars and light to medium weight trucks and tractors. Built with exclusive Willard "Safety-Fill" covers. 6-volts.

U.S.I. PERMANENT ANTI-FREEZE PERMANENT ETHYLENE GLYCOL ANTI-FREEZE



Winter-Time Protection

This new chemical miracle is freeze-proof, rust-proof, and boil-proof.

Container Size	No. per Case	Price Per Gal.
1-Gal. Can	6	\$3.50
1-Qt. Can	24	3.80

CUTLER-HAMMER PYROFLEX RANGE SURFACE UNITS

ELEMENTS FOR REPLACEMENT SERVICE



Bulletin 15150

Electric Range surface units with Pyroflex 2-way heat flow—the one outstanding development in range surface units since the advent of the rod type element — now available for replacement and modernization on all models of electric ranges.

Cat. No.	Watts	Volts	Diam. of Element	Price Each
15150-				
H61	1250	115-120	6"	\$7.00
H62	1250	230-240	6"	7.00
†H63	1250	†	6"	7.00
H81	2100	115-120	8"	9.00
H82	2100	230-240	8"	9.00
†H83	2100	†	8"	9.00

†Price of element includes one aluminum reflector pan packaged with element.

†Special unit for Frigidaire ranges — high wattage element 236 volts, low wattage element 118 volts.

STAINLESS STEEL ADAPTER RINGS

Required with each unit.

Cat. No.	Ring Diam., Inches	TO BE USED WITH PYROFLEX ELEMENT		Price Each
		Rated at	Size Inches	
15150-				
R63	7 7/8	1250 watts	6	\$1.50
R64	8 5/8	1250 watts	6	1.50
R65	9 7/16	1250 watts	6	1.50
R67	9 7/8	1250 watts	6	1.50
R69	10 7/8	1250 watts	6	1.50
R85	9 7/16	2100 watts	8	1.50
R87	9 7/8	2100 watts	8	1.50
R88	10 1/4	2100 watts	8	1.50
R89	10 7/8	2100 watts	8	1.50

To order complete unit consisting of element, pan, and ring, add ring "R" number to basic element number.

For example: Cat. No. 15150H61-R63 would cover a 1250 watt unit for 115-120 volts, 6 inches diameter with a 7 7/8-inch diameter ring.

RING APPLICATION DATA

Adapter rings should be selected to fit the type and size of range opening, per table below.

For 1250 Watt Unit

ADAPTER RING		RANGE OPENING—TYPE & DIA.					
Ring Cat. No.	Ring O.D. Inches	Min. Max.		Min. Max.		Min. Max.	
		Min.	Max.	Min.	Max.	Min.	Max.
15150-							
R63	7 7/8	7 1/8	7 3/8	6 5/8	7 7/16	6 3/8	7 1/4
R64	8 5/8	7 1/8	8 1/4	6 5/8	8 1/4	6 5/8	7 7/8
R65	9 7/16	7 1/8	9	6 5/8	9	6 5/8	8 13/16
R67	9 7/8	7 1/8	9 1/2	6 5/8	9 7/16	6 5/8	9
R69	10 7/8	7 1/8	10 1/2	6 5/8	10 7/16	6 5/8	9 5/16

For 2100 Watt Unit

Ring Cat. No.	Ring O.D. Inches	Min.	Max.	Min.	Max.	Min.	Max.
15150-							
R85	9 7/16	9	9	8 5/8	9	8 5/8	8 13/16
R87	9 7/8	9 1/8	9 1/2	8 5/8	9 7/16	8 5/8	9 1/4
R88	10 1/4	9 1/8	9 13/16	8 5/8	9 13/16	8 5/8	9 1/2
R89	10 7/8	9 1/8	10 1/2	8 5/8	10 7/16	8 5/8	10

Note—Inner dia. "X" of opening cannot be less than 6 5/8 inches for 1250 watt unit, or 8 5/8 inches for 2100 watt unit.

NICRO STAINLESS STEEL VACUUM COFFEEMAKER

NICRO 8-CUP STAINLESS STEEL VACUUM COFFEEMAKER



Stainless steel vacuum coffeemaker, complete with upper and lower bowls, rubber gasket, all-metal stainless steel "Flavor Insurance" filter, bakelite handle and stainless steel hinged cover and plastic knob. Plastic upper bowl stand and cover and plastic measuring spoon. Lustrous high-polish finish wipes clean with damp cloth. Packed 6 to a carton. Shipping weight, 18 lbs.

Price, Model No. 500 Stainless Steel
Vacuum Coffeemakereach **\$10.95**

NICRO 12-CUP STAINLESS STEEL VACUUM COFFEEMAKER

Stainless steel upper and lower bowls, all-metal stainless steel "Flavor Insurance" filter, bakelite handle and attached stainless steel hinged service cover with plastic knob.

Lower bowl contour fits all gas and electric stoves and warming stations. Plastic measuring spoon included. Packed 6 to a carton; shipping weight, 22 lbs.

Price, Model 1512
..... **\$14.95**



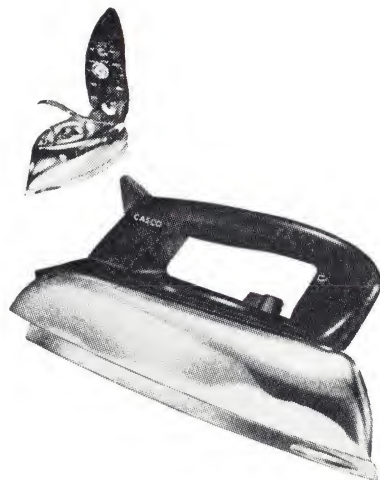
NICRO 8-CUP ELECTRIC AUTOMATIC STAINLESS STEEL VACUUM COFFEEMAKER



All stainless steel fully automatic coffeemaker. Automatic control, shuts off when coffee reaches flavor perfection, then keeps at correct serving temperature. Complete with upper and lower bowls, "Flavor Insurance" filter, bakelite handle, hinged type server cover with plastic knob, and electric cord. Built-in 575 watt electric unit. Packed 3 to a carton; shipping weight 15 lbs.

Price, No. 2508
8-Cup**\$22.95**

CASCO STEAM AND DRY IRON



Irons dry — irons with steam. Fully automatic, with super-accurate fabric dial that automatically delivers the right heat, the safe heat for both steam and dry ironing by simply dialing the fabric. Thermostat is accurate to within 15 degrees.

Water cannot rust it . . . steam cannot corrode it. Finest stainless steel insures extra years of trouble free ironing with crystal-clear water. New Flip-up to Fill-up top. No caps, no funnels. Fingers never touch hot metal. Distilled water unnecessary. Automatic seal acts as safety valve.

Casco exclusive internal baffle system prohibits spitting or dripping on fabrics and gives greater water capacity. Scorch-proof heel rest. It's tip-proof, yet actually suspends body of iron in air. Cannot scorch no matter where you stand it.

Built-in Calrod heating element. Mirror polished aluminum sole plate, flared and beveled — complete with button nooks. 32 square inches of ironing surface. Air cooled, comfort-shaped handle.

Super-heated steam guarantees perfect steam pressing for the thickest, heaviest materials. Concentrated steam vents — steam goes where it's needed most, penetrates the deepest fabrics. None wasted around the edges.

7-foot cord reduces the need for extension cords. Removable plate permits simple cord replacement.

Weight, 3½ pounds. Holds 11 ounces of water, with over an hour of continuous steam ironing, without refilling.

Underwriters' Approved. Guaranteed for one year. Gift packaged in distinctive plaid box.

Price, No. N-1 Casco Steam Iron.....each **\$19.95**

Federal Tax included.

HAMILTON BEACH MODEL "G" FOOD MIXER with "MIXGUIDE" and "BOWL CONTROL"



Here is the food mixer that is easiest to sell because it is easiest to use. It is the mixer women want most because of the many extra features they get without paying a premium. Precision built to practically eliminate service. Sold under a policy that assures you full profit on every sale. Backed by powerful national advertising, effective promotional material.

Specifications—Mechanical Details

Motor—Built by Hamilton Beach. No radio interference.

Current—Operates on 110-120 volts DC or AC up to 75 cycles.

Drive—Worm gear of phosphor bronze. Quiet, compact, durable.

Beaters—Chromium plated, mounted in a single, guarded, easily detachable frame.

Bowls—Opaque glass bowls in white. Small bowl, 1 quart; large bowl, 3 quarts.

Finish—Baked enamel, with bakelite handle.

Cord—6-ft. rubber cord with unbreakable moulded rubber plug.

List Prices Model "G" Food Mixer

	East	West
Model G	\$35.25	\$35.90
Model G with Juicer.....	39.50	40.25
WMC 120 Set of Bowls	2.65	2.80
WM 140 Large Bowl	1.65	1.75
WM 141 Small Bowl	1.05	1.15
WM 166A Extractor Bowl	1.65	1.75
KMC 190 Extra Beaters.....	1.65	1.65
Meat Grinder	7.50	7.95
Slicer—Shredder	6.95	7.25
Coffee Grinder	6.95	7.25
Pea Huller—Bean Slicer.....	4.75	4.90
Power Unit No. 2.....	5.00	5.25

Only Hamilton Beach Offers All These Features — Plus Full Power At All Speeds



MIXGUIDE puts 10 tested speeds under the thumb, under the eye. New, exclusive feature.



BOWL CONTROL permits shifting bowl while beaters turn to insure perfect mixing.



ONE HAND OPERATION, with motor sliding easily off stand for use at stove or table.



FREE - FLOW STRAINER extracts all coarse pulp from juices. Fits into extractor bowl.



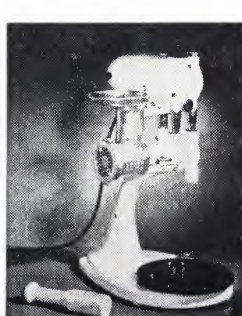
ONE-PIECE BEATERS, fully guarded, quickly detached by twist of thumb screw.



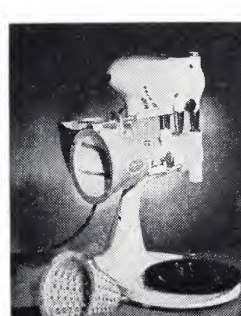
Coffee Grinder.



Power Unit (for use with slicer and meat grinder).



Meat Grinder and Chopper.



Slicer and Shredder.



Pea Huller—Bean Slicer.

Above Attachments Fit Hamilton Beach Food Mixer, Models B, C, D, E, and G

HAMILTON BEACH MIXETTE 3-SPEED PORTABLE FOOD MIXER

With One Hand Operation



A small portable mixer that does a real job of mixing, mashing, beating, folding. Will handle any job in the recipe book. Not as many speeds or features as the big Hamilton Beach with Mix-guide and Bowl Control, but the answer to many small-kitchen housewife's needs. Mixette has three tested speeds, right under the thumb, powered by trouble-free Hamilton Beach motor that has long been the standard for the small appliance field.

Features: Hand that holds mixer sets speed. Flat base permits standing on end so batter drips in bowl. Use with any bowl or pan — anywhere. Weighs only 2½ lbs., yet contains no plastic. Use beater for mixing liquids. When not in use hang on wall bracket that is included or store in drawer. Balanced handle eliminates wrist strain. Metal case — baked-on white enamel. Recipe book and instruction book. Beautifully gift packaged.

Price, Mixetteeach \$17.75

HAMILTON BEACH QUICK DRY ELECTRIC HAIR DRYER

The Choice of Professionals



For many years Hamilton Beach Hair Dryers have been the choice of professionals — beauty shop operators and barbers — because they dry quicker and better. The new No. 6 "Quick Dry" offers the same advantages — plus light weight and easy handling. It has a switch on either side — ON-OFF and HOT-COLD. All metal, no plastic. Finished in handsome ivory enamel. Hamilton Beach quality-precision manufacture throughout guarantees years of trouble-free service.

Attractive, colorful package shows the "Quick Dry" in actual use, demonstrating ease of handling. Additional uses — defrosting, drying nail polish, spot drying, paint drying, etc., featured on sides of package. Open, it makes an attractive counter display.

Price, No. 6 Hair Dryer.....each \$14.90

HAMILTON BEACH VIBRATORS

TYPE K VIBRATOR



The lowest priced vibrator in the Hamilton Beach line, developed to meet the demand for a motor-driven vibrator at a modest price. Into it are built features rarely found in a vibrator in this price range.

Compact motor, applicators 1, 2, 4, 6, 7, toggle type vibrating movement (adjustable for wear), handy switch and baked enamel finish. Packed in fitted carrying case.

Listed by Underwriters' Laboratories, Inc. Operates on 110-120 volts, D.C. or A.C., up to 75 cycles.

Packed with instruction sheet individually in carton. Shipping weight, 3¼ pounds.

Price, Type K Vibrator complete, each.....\$14.95

TYPE F VIBRATOR



Exceedingly popular for home and professional use. Has 7 different speeds to vary intensity of vibration. Operates on 25-60 cycles, 110-120 volts A.C. No extra charge for motor to operate on 110-120 volts D.C. Wear adjustment insures long life. Listed by Underwriters' Laboratories, Inc. Complete with 7 feet of cord, can of oil, instruction card, applicators 1, 2, 3, 4, 6, 7, all packed in a fitted carrying case. Packed individually in carton. Shipping weight, 5¾ pounds. (Unless otherwise specified, A.C. motor will be furnished.)

Price, Type F Vibrator complete, each.....\$19.50

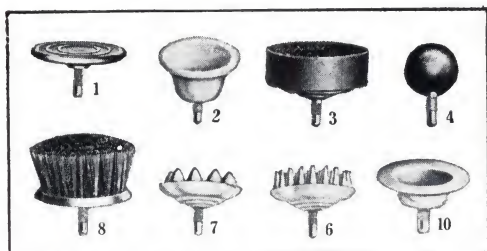
TYPE D VIBRATOR



Stands up under hard service in barber shops and homes. Has no speed control. Operates on 110-120 volts, D.C. or A.C., up to 75 cycles. Adjustments for wear. Listed by Underwriters' Laboratories, Inc. Complete with 7 feet of cord, can of oil, instruction card, applicators 1, 2, 3, 4, 6, 7, all packed in a fitted carrying case. Packed individually in carton. Shipping weight, 5¾ pounds.

Price, Type D Vibrator complete, each.....\$19.50

HAMILTON BEACH APPLICATORS

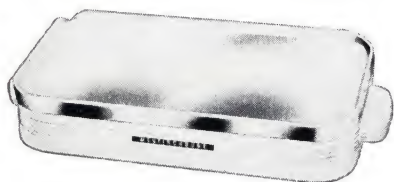


The applicators furnished with each Hamilton Beach Vibrator are specified under each vibrator. Applicators Nos. 8 and 10 are special and are furnished only on special order. Prices on these special and extra applicators are shown below. The No. 8 is for bristle-brush scalp treatments. No. 10 is similar to No. 2, but is softer.

Price, No. 3 Applicator.....each **\$0.90**
Price, All Others.....each **.60**

WESTINGHOUSE ELECTRIC APPLIANCES

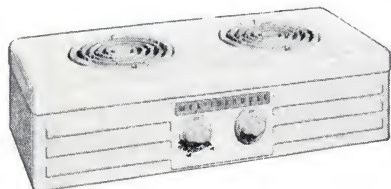
MENU-MASTER ELECTRIC GRIDDLE



This versatile, practical appliance fills a need in every kitchen. Large capacity for frying, grilling, toasting so many foods faster and better. Fries bacon and eggs for breakfast — or perfect “picture pancakes.” Cooks delicious chops, fries potatoes for a quick, easy dinner. Grills hamburgers, wieners, toasts sandwiches, for snacks and parties. Its light, easily portable — requires little storage space. 1000 watts, a-c only. Single heat, Unitherm thermostat prevents overheating. Detachable 6-foot cord with plug included. Approved by Underwriters’ Laboratories.

Cat. No.	Watts	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
EG-91	1000	1	7 1/4	.....

No. HP-91 TWO UNIT HOT PLATE



Easily portable, safe, clean, convenient surface cooking. Gleaming white porcelain top is easy to clean, wrap-around body of heavy-gauge steel is completely enclosed. Range type 3-heat rotary switches are plainly marked for each heat. Two 3-heat, open-type units. Permanently attached heavy duty cord. Operates on a-c only.

Price, Hodel HP-91 Hot Plate.....each **\$16.95**

WESTINGHOUSE ELECTRIC APPLIANCES

No. STC-44 SANDWICH GRILL STANDARD MODEL



Identical in appearance to Model STC-54 except that it is non-automatic. Best quality nickel-chromium wire element. Expansion hinges accommodate sandwiches of any thickness without mashing. Permits top grid to fold back. Dual-purpose handle turns from horizontal to vertical position to serve as support for top grid when opened flat. Locks in place in either position. Built-in overflow rim catches excess drippings or batter overflow. Heat shield in base gives greater efficiency, lower table top temperature. Tarnishproof chrome finish.

660 watts, a-c or d-c. Detachable cord and miniature plug included. Approved by Underwriters Laboratories, Inc.

Cat. No.	Watts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
STC-44	660	6	8	\$14.95

No. WL-414 STANDARD WAFFLE BAKER



Pretreated grids eliminate sticking or “breaking-in.” No greasing. Covered expansion hinge assures waffles of even thickness. Built-in batter rim catches overflow. Recessed heat indicator tells when grids are at proper baking temperature. Fast heating element assures evenly browned waffles. Tarnishproof chrome finish. Cool, plastic handles. 600 watts, a-c or d-c. Detachable cord and miniature plug included. Underwriters’ Laboratories approved.

Cat. No.	Watts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
WL-414	600	12	6	\$12.95

No. WFT-14 TWIN WAFFLE BAKER



Scientifically matched heating elements top and bottom, of nickel-chromium wire to insure evenly browned waffles on both sides. Preheated grids never need greasing, ready for immediate use. Made of cast, solid aluminum. Covered expansion hinge assures waffles of even thickness. Built-in batter rim catches batter overflow. Cool plastic handles. Long service assured by special heavy construction. Triple plated, heavy tarnishproof chrome over layers of copper and nickel. Always bright and easy to keep clean. Approved by Underwriters’ Laboratories. 660 watts, a-c or d-c. Detachable cord and miniature plug included.

Cat. No.	Watts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
WFT-14	660	6	8	\$16.95

WESTINGHOUSE ELECTRIC APPLIANCES

No. CM-81 AUTOMATIC COFFEE MAKER



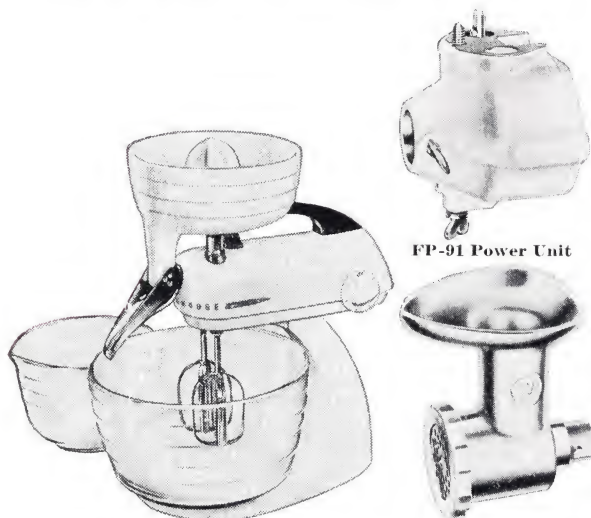
Full eight 5-ounce cup capacity. Heating elements energized by Automatic Starter Button give total of 1000 watts for brewing, 150 watts for maintaining correct serving temperature.

Cool black plastic Easy-Grip handle, black plastic scratchproof feet. Thermostatic control automatically responsive to temperature of coffee. Fine screen, metal filter. "V-slots" in cover prevent dripping when pouring. Long-life detachable cord and plug.

Operates on a-c only.

Price, No. CM-81 Automatic Coffee Makereach **\$32.95**

No. FM-81 FOOD MIXER WITH JUICER



FM-81 with Juicer

FG-91 Food Chopper

Simplified appliance that combines years of engineering research plus kitchen testing. Compact, ultra cool motor, precision-built motor has full ¼ hp maximum load capacity. No shift, no spatter. Off-center chrome-plated steel, snap-in type beaters allow maximum pouring space. Pyrex bowls. Mixer is easily stored on counter surface under overhanging cupboards. Operates on a-c or d-c.

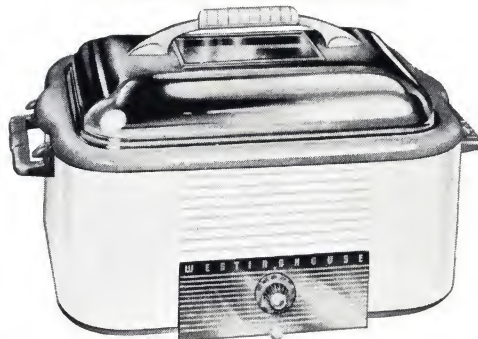
Cat. No.	Watts	Volts	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
FM-81	140	115	1	17½	\$37.50

Attachments

FJ-91	Juicer	\$4.45
FP-91	Power Unit	9.75
FG-91	Food Chopper	7.50

WESTINGHOUSE ELECTRIC APPLIANCES

No. R0-91 ROASTER-OVEN



The Westinghouse Roaster-Oven bakes, roasts, broils, fries and grills — 2 square feet of cooking magic for economy, cleanliness, coolness and saving time. Heating elements, buried within all four walls of the Roaster-Oven deliver even heat distribution throughout all parts of the oven interior.

Bakelite handles tested to stand 90 pounds pull without loosening or strain. Signal light glows through crystal temperature control knob when current is on. Overall dimensions: length, 23½ inches; width, 15¼ inches; height, 12¾ inches. Meat dish of 2¾ quarts capacity, two covered vegetable dishes of 2 quart capacity each. Heat-proof glass. 6-foot heavy-duty, rubber-armored cord; soft, rubber plug.

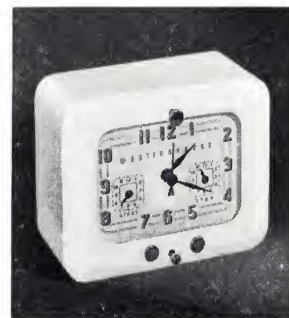
RC-611 Cabinet

All metal construction, finished in white enamel. Specially designed so that Roaster-Oven fits flush with top. Equipped with casters. Opening provided for built-in Timer Clock to make Roaster-Oven operation fully automatic. Hinged door. Two shelves inside to hold Roaster dishes and Broiler Grid. Height, 28½ inches, width, 14½ inches, length 20½ inches.

Cat. No.	Volts	Watts	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
R0-91	115	1,320	1	44	\$39.95
RC-611	Roaster Cabinet				18.95
RG-91	Broiler-Grid				7.95

No. TC-81 TIMER CLOCK

The Westinghouse Timer Clock makes the Roaster-Oven operation fully automatic. Range of operation from 15 minutes to 11½ hours. Self-starting electric clock, can be used to turn on and off other kitchen electric devices. Always an accurate kitchen timepiece. Operates on a-c only.



Cat. No.	Description	Watts	Volts	Price Each
TC-81	Timer Clock	1650	115	\$10.95

**WESTINGHOUSE ELECTRIC
APPLIANCES**

No. TO-501 AUTOMATIC TOASTER

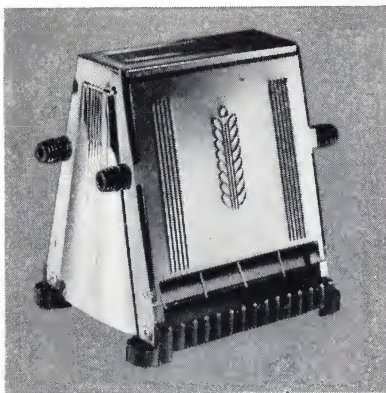


Here's a beautiful, automatic toaster with the newest look in sleek, gleaming chrome. Easy to keep clean—no cracks, no crevices for hidden crumbs. Hinged crumb tray on bottom makes cleaning out crumbs easy.

Time Temp Control automatically insures perfect browning and texture for each setting. Push-up release raises small slices an extra inch. Now you can extract small slices, even rye bread without burning fingers or snagging toast with a fork. 1320 watt. 115 volts. Shipping weight, 6½ lbs.

Price, No. TO-501 Automatic Toaster...each **\$22.95**

No. TT-72 TURNOVER TOASTER

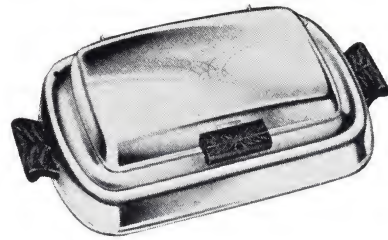


Toasts two slices of bread. Lowering of tray handles turns both slices of toast automatically. Sturdily built for long, trouble-free service. Finished in tarnish-proof chrome with black plastic base. Ribbon-type nickel-chrome heating element wound on mica base. Detachable cord and plug. A-c or d-c.

Cat. No.	Watts	Volts	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Each
TT-72	450	115	1	3	\$5.95

**WESTINGHOUSE ELECTRIC
APPLIANCES**

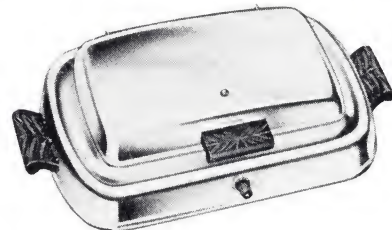
No. SG-502 STANDARD SANDWICH GRILL



This versatile Sandwich Grill has many uses in making snacks, luncheons easier—more delicious. It toasts, fries, grills, warms, even makes tasty waffles with a separate set of grids (optional). 660 watts, a-c or d-c. Permanently attached cord and plug. Shipping weight, 8 lbs.

Price, No. SG-502 Standard
Sandwich Grilleach **\$14.95**

No. SG-501 ADJUST-O-MATIC SANDWICH GRILL



Makes delicious toasted sandwiches of all kinds, grills bacon, chops, hamburgers, vegetables or fruit. May be used with separate set of waffle grids (accessory) for making delicious waffles. Ideal for buffet suppers, late snacks, quick luncheons, etc. Fast heating 850 watt element is designed for long life. Signal light indicates when selected temperature is reached. Permanently attached cord and plug. Pre-treated waffle grids SGW-502 (optional), **\$2.95**.

Price, No. SG-501 Adjust-O-Matic
Sandwich Grilleach **\$17.95**

No. WB-503 TWIN WAFFLE BAKER

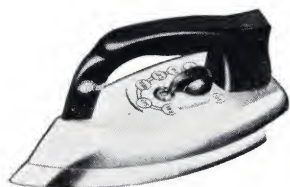


Waffle baking at its delicious, automatic best. No more guesswork — no more ill-fated results. Thermostatic control permits user to select the desired degree of brownness—from light and tender to dark and crispy. Signal light tells when to pour the batter. Permanently attached cord. 660 watts, a-c or d-c. Shipping weight, 8 lbs.

Price, No. WB-503 Twin
Waffle Bakereach **\$16.95**

WESTINGHOUSE ELECTRIC APPLIANCES

MODEL ID-505 ADJUST-O-MATIC IRON



Efficient, dependable Westinghouse Adjust-O-Matic iron. Efficient because the "COROX" heating element assures fast, even heat distribution at the ironing surface, an important factor for smooth, crisp ironing.

The cool, fatigue-proof handle permits a natural arm and wrist movement. The sloping ironing edge lets the iron glide quickly and easily under buttons and into pleats. The big, easy-to-read fabric-markings on the cover plate are easily selected by the Fabric Selector Dial, located at a convenient finger-length from the handle. A flick of the finger sends the heat surging into the "COROX" element — right up to the selected temperature.

This iron is dependable because the rugged Uni-therm thermostat maintains the ironing temperature selected, regardless of fabric dampness.

One-piece, cast iron base with 800-watt tubular "COROX" heating element permanently pressed into base. Heel Stand: Just tilt iron up on cool heel, no need for pad or holder. Complete with 6-foot Underwriters' approved cord and plug permanently attached. Spring wire guard keeps cord out of users way while ironing.

Price, No. ID-505 Adjust-O-Matic Iron...each \$8.95

No. ZR-44A COZY-GLOW HEATER



Instant heat when and where wanted. Infrared rays produced by heating element have therapeutic value, also excellent for quick drying of paints and lacquers. 14-inch aluminum reflector tilts to any desired angle — wire guard removable for easy cleaning. Weighted base prevents overturning. Operates on a-c or d-c.

Cat. No.	Watts	Volts	Std. Pkg.	Unit Shpg. Wt. Lbs.	Price Each
ZR-44A	800	115	6	7½	\$8.95

WESTINGHOUSE ELECTRIC APPLIANCES

No. WP-501 WETPROOF WARMING PAD



This 3-Temperature Pad with a removable quilted satin covering is completely wetproof to assure safe use with any damp application. The heating unit is hermetically-sealed in a rubberized cloth envelop. Brailway switch can be "read" in the dark. Turned to "low" one button pops up, "medium" two buttons pop up, "high" three buttons pop up. Size of pad 12 x 15 inches. 115 volts, a-c or d-c. Uses 60 watts. 8-foot rubber covered cord. Shipping weight, 2 lbs. Listed by Underwriters' Laboratories, Inc.

Price, No. WP-501 Wetproof Warming Padeach \$8.45

No. WP-502 STANDARD WARMING PAD

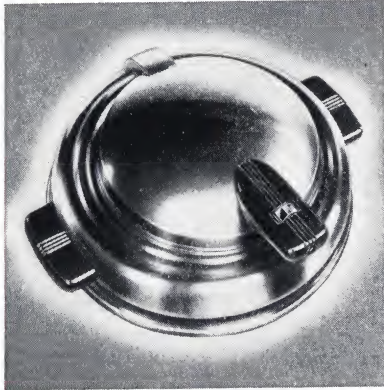


Richly embossed fabric jacket encloses rubberized pad. Pad resists absorption or perspiration and stains. Two thermostats, one single heat and one master give positive "low", "medium" and "high" temperature control. Switch is plainly marked for easy adjustment. Size of pad, 12 x 15 inches, 115 volts, a-c or d-c. Uses 60 watts. 8-foot rubber covered cord. Shipping weight, 2 lbs. Listed by Underwriters' Laboratories, Inc.

Price, No. WP-502 Standard Warming Padeach \$6.95

WESTINGHOUSE ELECTRIC APPLIANCES

No. WSA-24 ADJUST-O-MATIC WAFFLE BAKER



Thermostatic control assures desired degree of brownness. Signal light tells when to pour batter, when to remove waffles. Pretreated grids. Covered expansion hinge assures waffles of even thickness. Cool plastic handles. Built-in batter rim. Detachable cord and miniature plug. Operates on a-c only.

Cat. No.	Watts	Volts	Std. Pkg.	Unit Wt. Lbs.	Shpg. Lbs.	Price Each
WSA-24	750	115	6	8		\$16.95

No. WB-501 ADJUST-O-MATIC WAFFLE BAKER



Huge grids (81 square inches) bake enough delicious waffles to serve entire family without waiting. Thermostatic control takes the guesswork out of waffle baking. Signal light tells when to pour batter — when to remove waffles. Grids are pretreated with new silicone compound. No greasing or “breaking in” ever required. 1150 watts a-c only. Permanently attached cord. Shipping weight, 11 lbs.

Price, No. WB-501 Adjust-O-Matic
Waffle Bakereach \$24.95

WESTINGHOUSE ELECTRIC APPLIANCES

No. ID-723 STREAMLINER IRON



Personalized Temperature Control lets user select desired ironing speed (fast, medium, slow) for each different fabric. Jewel Signal Light indicates when iron is at proper heat; eliminates bothersome testing and prevents scorching delicate synthetic materials. Other smooth ironing features of the lightweight, 3-pound Streamliner include: cool fatigue-proof handle, beveled edge and tapered point for quick gliding over buttons and bows, extra-long cord with cool, rubber wrist guard. 1,000-watt “Corox” heating element cast in base. 115 volts. Shipping weight, 4 pounds.

Price, No. ID-723 Streamliner Iron.....each \$12.95

No. LPC-94 ADJUST-O-MATIC IRON



This Adjust-O-Matic Iron has the new super-sensitive Unitherm thermostat that maintains accurate heat control whether ironing light-dry or heavy-moist garments. Control lever is fabric-marked for accurate selection of heat required. The 1000 watt, fast heating, tubular Corox heating element is pressed in a cast iron base for better heat distribution on the ironing surface, long element life and cooler cover and handle. New easy grip handle with thumb rest means “easier on the hand” ironing. Lightweight — weighs only four pounds.

A.C. only. 7-foot Underwriters’ Approved cord with soft rubber plug permanently attached to the iron. Withstands 10,000 cycle-test and 50 pound pull. Available in right or left hand model.

Cat. No.	Watts	Volts	Std. Pkg.	Shpg. Wt. Lbs.	Price Each
LPC-94	1000	115	6	5	\$10.95

WESTINGHOUSE VACUUM CLEANERS

MODEL F9 DELUXE
AUTOMATIC VACUUM
CLEANER

No levers to push, no knobs to turn, no triggers to pull with this new Westinghouse Deluxe Automatic Vacuum Cleaner. The nozzle adjusts automatically and the handle is self-adjusting, too. There is no more fuss or bother in hooking up the Handi-Help attachments (optional). Easy does it—with the amazing new Attach-Adapter.

Price, Model F9 Deluxe Automatic Vacuum Cleanereach \$59.95

Price, Model AD-11 Attachments 19.95

MODEL F-11 CUSTOM AUTOMATIC UPRIGHT

Maroon and Gray finish. Motor housing and nozzle of extra-strong, durable, sound-insulating moldarta. $\frac{1}{4}$ H.P. motor, 115 volts DC to 60 cycles AC, 10,000 R.P.M., 365 watts; lubricated for life. 20 foot cord. Brush: Patented two-height tuft construction; ball-bearing mounted; adjustable to compensate for wear. Special paper filter bag enclosed in zipper outer cloth bag. Good for 4-5 weeks use. Total of four supplied with cleaner. Cleaner automatically adjusts itself to all rug thicknesses. Self-adjusting handle. Counter-balanced construction permits easy adjustment to any desired position. Headlight: 115 volt standard appliance lamp. Radio interference eliminator.

Weight: 17 pounds. Shipping weight 24 pounds.

Price, Model F-11 Custom Automatic Upright\$69.95

MODEL AD11 ATTACHMENTS
Optional for Either F9 or F11

12 piece set—Attach-adapter enables attaching of hose without removing belt. Furniture brush, swivel floor brush, dusting brush, drapery nozzle, crevice nozzle, demother, crystals, 8 ft. all-rubber flexible hose, wire reinforcement tubes, and storage kit complete the set.

Shipping weight, 11 pounds.

Price, Model AD11 Attachments.....\$19.95

WESTINGHOUSE VACUUM CLEANERS

MODEL F-10 AUTOMATIC CLEANER AND ATTACHMENTS



This attractive black and grey Westinghouse automatic cleaner with motor-driven brush assures thorough cleaning action for all rugs and carpets. It is full-sized, with a 14-inch nozzle, and $\frac{1}{4}$ hp motor. Headlight gives broad flow of light over immediate cleaning area. New 12-blade fan reduces noise, balanced to prevent excessive wear on motor bearing. Specially napped, heavy sateen material bag retains dust — without diminishing nozzle suction efficiency.

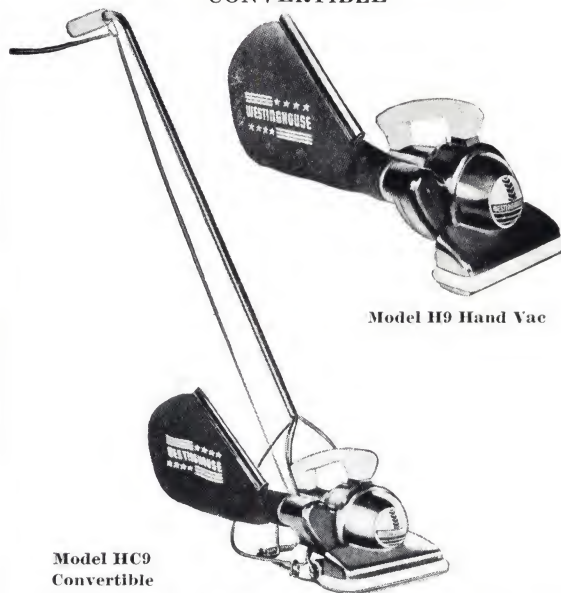
Price, Model F10 Automatic Vacuum Cleaner.....\$39.95

Model A-10 Attachments

7-piece set includes 8-ft. flexible non-kinking hose; Utility brush for floors, linoleum, upholstered furniture; dusting brush for Venetian blinds, lamp shades, book shelves; crevice nozzle for radiator, bureau drawers; drapery nozzle; 2 extension tubes.

Price, Model A-10 Attachments.....per set \$13.95

MODEL H9, HC9 HAND VAC AND CONVERTIBLE



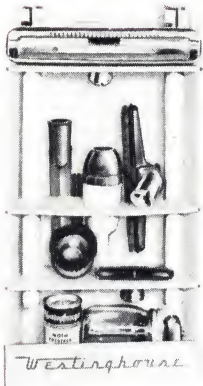
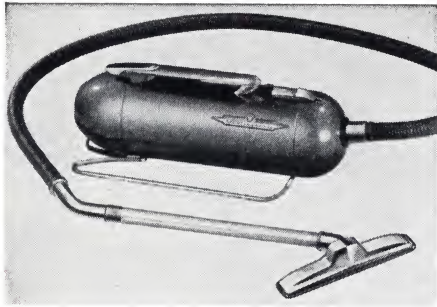
Model H9 Hand Vac

Model HC9
Convertible

This rugged, lightweight Westinghouse 2-in-1 Cleaner is the ideal answer to many cleaning problems. For small apartments, house trailers, upstairs last-minute tidying up, the Convertible with motor driven brush, is the perfect answer. Floor Adapter has patented spring arrangement which automatically controls nozzle adjustment. Out of the Adapter it becomes an efficient Hand Vac for cleaning and dusting upholstered furniture, stair treads, car interiors and mattresses. Light and easy to use, the Hand Vac weighs slightly more than a modern electric Iron.

Price, Model H9 Hand Vac.....each \$24.95
Model HC9 Convertible.....each 7.95

WESTINGHOUSE VACUUM CLEANERS
MODEL T-4 DYNA-MATIC VACUUM CLEANERS



Iridescent gray finish with bright metal trim. $\frac{1}{2}$ H.P. motor, 115 volts DC to 60 cycle AC, 16,000 R.P.M., 530 watts; ball-bearing design, lubricated for life, rubber mounted. 20 foot cord.

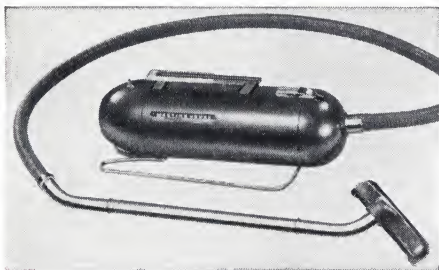
Attachments: 12 piece set — All-metal carpet nozzle with thread magnet, drapery nozzle, swivel floor brush, dusting brush, crevice nozzle, de-mother, crystals, sprayer, and satin-finish, latch-lock aluminum extension tubes, 8-foot all-rubber flexible hose, wire reinforced, and storage kit.

Toss-Away Bag: Good for 2-3 weeks use. Total of four supplied with cleaner. Radio interference eliminator.

Weight, cleaner unit 14 pounds; total shipping weight 29 pounds.

Price, Model T-4 Dyna-Matic Vacuum Cleaner\$74.95

MODEL T-5 THRIFT MODEL VACUUM CLEANER



Iridescent West Point gold and maroon finish, with bright metal trim. $\frac{1}{2}$ H.P. motor, 115 volts DC to 60 cycle AC, 12,500 R.P.M., 530 watts; ball-bearing design, lubricated for life, rubber mounted.

Attachments: 7-piece set — Automatic carpet nozzle, utility brush, drapery nozzle, crevice nozzle, and satin-finish, friction-lock aluminum extension tubes, and 8-foot all-rubber flexible hose, wire reinforced.

Dust Bag: Specially-woven fabric for efficient filtering of dust laden air. Weight, cleaner unit 16 pounds; total shipping weight 29 pounds.

Price, Model T-5 Thrift Model\$49.95

HAMILTON BEACH VACUUM CLEANERS



CHAMPION NO. 14

Weights Only
13 lbs., 15 oz.

The Champion, built to Hamilton Beach precision standards plus new, outstanding lightness and ease of handling . . . and all the well-known, up-to-date features (floor light, tip-toe nozzle adjustment, more powerful ball-bearing motor and many other refinements.) Here, indeed, is a finer cleaner that will appeal to those who want the best.

New, light weight—ease of operation and increased cleaning efficiency are built into this cleaner through the use of ALSILOY. This new alloy makes these advantages possible without sacrifice of structural strength.

MOTOR: Powerful, oversized, ball-bearing motor—horizontal type—built by Hamilton Beach. More powerful than the No. 12. Its oversize armature gives great reserve power. Has a 24-bar, mica insulated and undercut commutator—a feature which represents the finest in motor manufacture. Radio interference eliminator built into motor. Operates on 110-120 volts DC or AC up to 75 cycles. Motor speed 9500 R.P.M. under load.

LUBRICATION: The ball-bearings are grease-packed and need no additional lubrication.

BRUSH: Full width (11 $\frac{1}{4}$ in.) motor-driven brush. Selected, high-quality China bristles in a single spiral row insure long wear. Adjustment for bristle wear is made with fingertips without removing brush.

NOZZLE ADJUSTMENT: A simple movement of the toe instantly changes the nozzle adjustment to five positions. Will not slip out of adjustment.

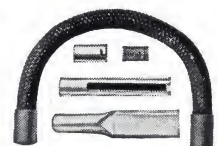
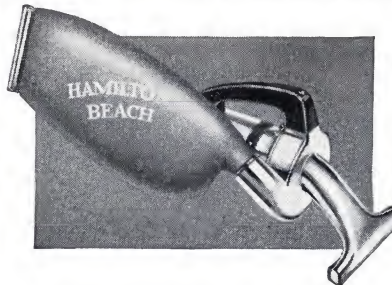
LIGHT: Wide vision light for cleaning dark corners, under beds, in closets, etc. 25-watt lamp made expressly for vacuum cleaners.

BAG: New accordion type made of heavy, vatdyed, sun-fast material, scientifically developed to allow escape of air and retain dust. Wide opening mouth makes emptying easy.

CORD: Full length (20 ft.) Underwriters' approved cord with unbreakable moulded rubber plug.

Price, Champion No. 14.....\$52.50

HAND VACUUM CLEANER AND ATTACHMENTS

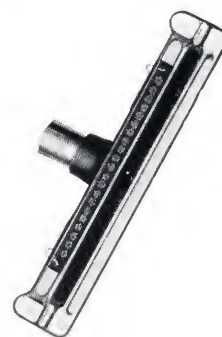
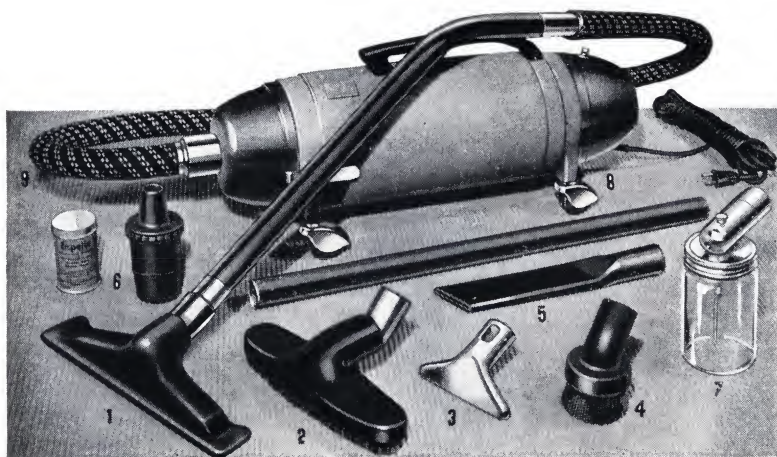


ATTACHMENTS

Has a large bag, powerful suction, easy to use and always handy. A wonderful convenience for removing dirt and lint from upholstered furniture, automobile interiors, stair carpets, draperies, etc.

Price, Hand Vacuum Cleaner.....\$23.90
Price, Attachments 4.25

HAMILTON BEACH No. 26 "DEEP-CLEAN" CLEANER With Double Action Floor Nozzle



Double
Action
Floor
Nozzle

PICKS UP LINT, HAIR, THREAD
GETS EMBEDDED DIRT

The No. 26, with its complete set of cleaning tools, has been designed for every "on-the-floor" and "above-the-floor" cleaning job. It cleans almost everything — rugs, carpets, linoleum, bare floors, draperies, upholstery, automobile interiors, lamp shades, etc. Sprays floor polish, paint and other liquids.

Prominent features are:— Double Action Floor Nozzle for thorough rug and carpet cleaning; Suction Regulator, for the safe cleaning of delicate fabrics; Four-Wheel Carriage for easy operation; Locking device for front swivel wheels prevents cleaner from rolling when used on stairways; Swivel Floor and Wall Brush for cleaning under low objects and other hard-to-reach places.

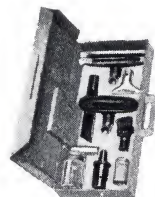
Efficient, heavy duty Hamilton Beach Motor, ball-bearing, with sealed in lubrication provides powerful suction; operates on 110-120 volts DC or AC up to 75 cycles. Radio interference eliminator. Cylinder housing, rolled sheet steel finished in platinum gray baked enamel; other metal parts heavily plated. The No. 26 is quality throughout.

The only floor nozzle with patented full floating brush and Double Action Ridges, plus furniture protector rubber body. Double action suction ridges folds open nap, creating high velocity suction area.

Free floating with rocking motion brush adjusts itself automatically to various rug thicknesses, loosening clinging litter, etc. Rubber bodied nozzle protects furniture, eliminating woodwork marring while cleaning. Swivel joint allows easy cleaning under low chairs, davenports, beds, etc.

List price, No. 26 "Deep-Clean" Cleaner complete with
all Attachments\$72.50

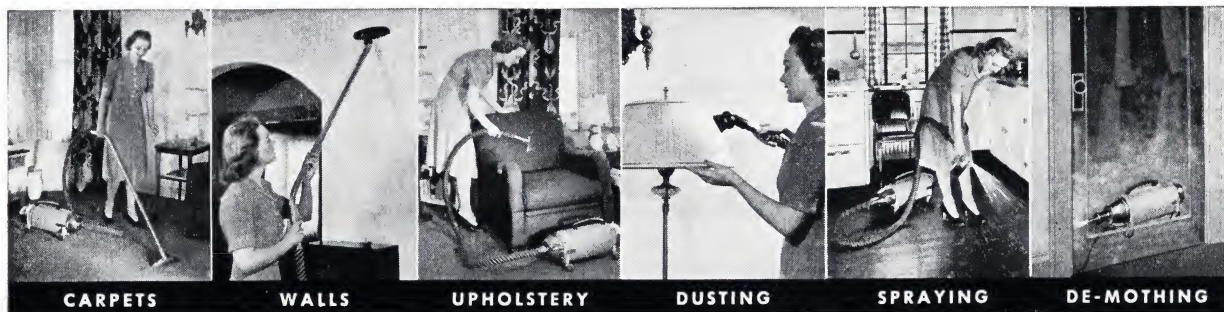
CLEANING TOOLS — FOR SCORES OF HOUSE CLEANING TASKS



- 1 **Double Action Floor Nozzle.** Duplex nozzle for thorough rug cleaning. Rubber body protects furniture. Polished floor plate will not discolor rugs.
- 2 **Floor and Wall Brush.** For tile, bare floors, linoleum and walls. Full rubber mounted—can't mar furniture. Swivel action.
- 3 **Upholstery Nozzle.** For cleaning upholstery, curtains, mattresses, auto interiors, etc. Has suction regulator.
- 4 **Utility Brush.** For all general dusting. Full rubber mounted. Inner guard wall directs suction, keeps bristles in normal position.
- 5 **Radiator Tool.** An efficient tool for cleaning radi-

ators, radios, piano interiors and other hard-to-reach places.

- 6 **Gas Dispenser.** Bakelite container holds Expello crystals for repelling moths. Attaches direct to end of cleaner or hose.
- 7 **Sprayer.** For spraying liquid wax or polish on floors, paints, lacquers, insecticides, etc.
- 8 **Extension Tube.** Two 23½-inch gray, baked enamel finish, steel tubes, one straight, one curved. All tools fit either tube.
- 9 **Hose.** Highest grade, 7-foot hose swiveled at both ends. Quick locking device for attaching to cleaner.



CARPETS

WALLS

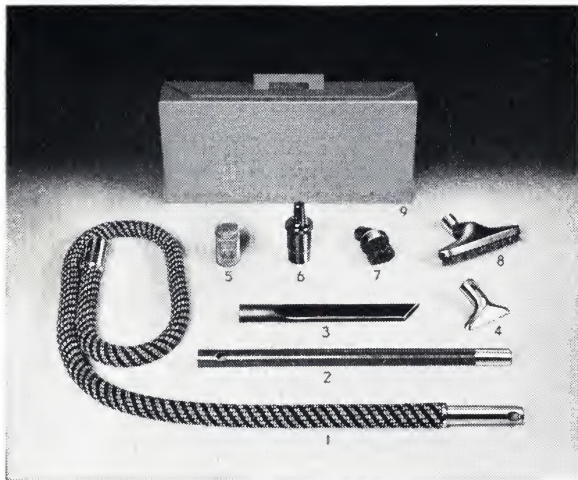
UPHOLSTERY

DUSTING

SPRAYING

DE-MOTHING

HAMILTON BEACH VACUUM CLEANERS No. 120 DELUXE ATTACHMENT SET



Hose and Nozzle Adapter (1). Easily attached to the No. 14 Hamilton Beach vacuum cleaner.

Extension Tube (2). Use on end of hose with other attachments for cleaning above mouldings and other high places.

Radiator Tool (3). Use for cleaning radiators, tufted mattresses, crevices in upholstered furniture, and hard-to-get places.

Upholstery Nozzle (4). Polished light weight nozzle for cleaning upholstery, draperies, automobile interiors, mattresses, pillows, etc.

Gas Dispenser (5). Use to protect clothing from moth damage with Expello Crystals (5).

Utility Brush (7). For lamp shades, venetian blinds, tapestries and general dusting. Full rubber mounting positively prevents scratching or marring. Long, soft bristles. Inner guard wall directs suction to ends of bristles.

Floor and Wall Brush (8). For hardwood floors, linoleums and walls. Swivel action permits use under low objects. Full rubber mounted. Brush easily removed from rubber mounting for washing.

Price, No. 120 Deluxe Attachment Sets.....\$16.95

No. 100 STANDARD ATTACHMENT SET



Metal Capsule and Expello (1 and 2). Use to eliminate moths from furniture.

Hose and Nozzle Adapter (3). Easily attached to No. 14 Hamilton Beach vacuum cleaner.

Extension Tube (4). Use on end of hose with other attachments for cleaning above mouldings.

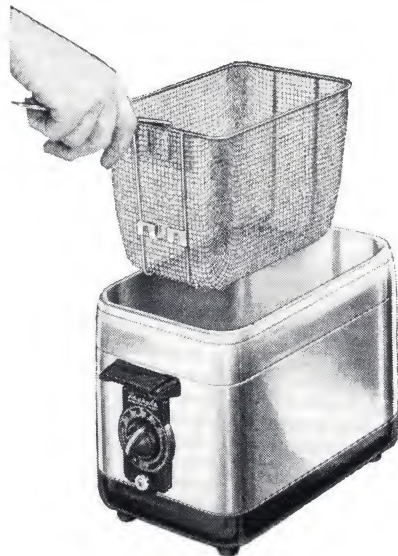
Slipon Brush (5). Use on upholstery, stair carpets, walls, and other smooth surfaces.

Upholstery Nozzle (6). For cleaning upholstered furniture, curtains, drapes, automobile interiors, mattresses, pillows.

Radiator Tool (7). Used for cleaning radiators, tufted mattresses, and hard-to-get places.

Price, No. 100 Standard Set.....per set \$12.50

FRYRYTE DEEP FRYER



Just the thing for real Southern Fried Chicken — French Fried Onions — Doughnuts — French Fried Potatoes — Fish — Popcorn — and an endless list of other enticing foods.

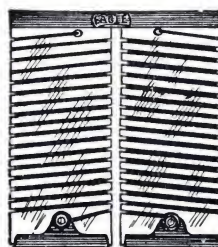
Mirror-chrome finish. Has removable handle on basket for ease in storing. Special support studs permit fat to drain when basket is raised. The heating element is integrally cast for even heat distribution, no "hot spots" to char the fat or cause smoking, no danger of "shorting out" from fat dripping on the element. Cold zone at the bottom of cast aluminum well catches all food particles. Fat remains in the unit for repeated use. Cover is provided for this purpose.

Thermostatic temperature control, calibrated, 250 to 450 degrees. 110 to 120 volts, A.C. only — 1320 watts. Capacity, 4 lbs. shortening or 4 pints oil. Unit 6¾ inches wide by 11¼ inches long by 7¾ inches high. Net weight, 8 lbs. Packed one unit to a carton. Underwriters approved.

Price, No. F4 Fryryte Deep Fryer.....each \$26.95

EAGLE ELECTRICAL PRODUCTS

RESTAURANT TOASTER ELEMENT



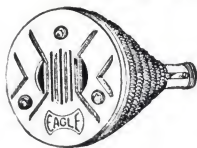
No. 338 special element will fit commercial Toaster toasters. 110-volt type made in 4.3, 4.6 and 4.9 amperes.

220-volt type made in 2.3 and 2.5 amperes. Specify which.

Cat. No.	Car- ton	Std. Pkg.	Wt. Lbs. Std. Pkg.	Price Per 100	
				110 V.	220 V.
338	1	10	1½	\$150.00	\$180.00

EAGLE ELECTRICAL PRODUCTS

1000 WATT SUPER GLOCOIL

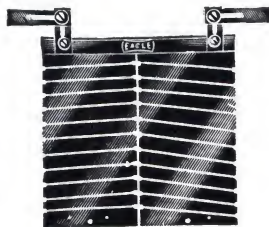


A 1000-watt Glocoil specially constructed with wide heating space, giving large reflecting area. Increases capacity over told-type unit three-fold. 3 3/4 inches diam. and extends 4 1/4 inches. Made in 110 and 220 volt.

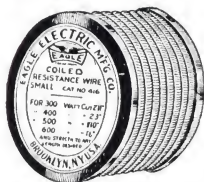
Price, No. 420 Glocoil (110v).....per 100 \$120.00

TOASTER ELEMENT

Can be adjusted by means of corner straps to fit many different toasters. 575 watts, 110 volts.



Cat. Car-Std. Wt.Lbs. Per
No. ton Pkg. Std.Pkg. 100
335 10 100 10 \$90.00
For special voltages,
32, 220-240 volts, add
\$10.00 per 100.



NICHROME REPAIR WIRE

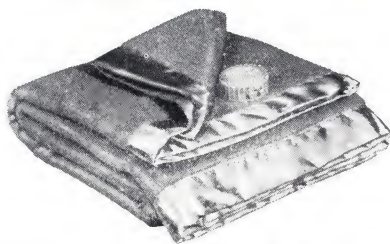
Consisting of genuine Nichrome wire for repairs to burned out appliances. Full instructions on spool. Packed 1 to carton; standard package, 10.

Cat. No.	Description	Price Per 100 Spools
416	No. 1, 5/8-inch in diameter of Coiled No. 22 Wire for Toasters and other light 110-volt work. 12 feet on Spool.	\$210.00
416	No. 2, 3/2-inch in diameter of Coiled No. 22 Wire for 110-volt repairs. 12 feet	210.00
416	No. 3, 3/2-inch diameter of Coiled No. 22 Wire for electric ranges and heavier work on 110 volts. 10 feet	340.00
416	No. 4, 1/4-inch diameter Coiled No. 20 Wire for very heavy 110-volt duty for 1000 watts or less. 10 feet	500.00

Other sizes and prices on request.

WESTINGHOUSE BED COVERINGS

ELECTRIC BLANKETS



A combination of wool for warmth, cotton for strength and rayon for richness. Full double-bed size; 72x86 inches, and can be used equally as well on a twin bed. Single or dual control. With dual control each control operates on its half of the blanket, enabling the users to select their own warmth preference. Choice of three sparkling colors: Evening Rose, Sapphire Blue and Emerald Green. Uses normal household current: 115 volts, a-c only. 180 watts.

Model No.	Description	Shpg. Wt. Lbs.	Price Each
EB-501	Complete with Single Automatic Watchman Control	8 1/2	\$39.95
EB-502	Complete with Dual Controls	10 1/2	47.45

WESTINGHOUSE ELECTRIC APPLIANCES

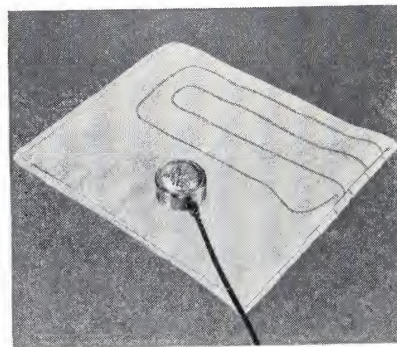
No. EC-61 ELECTRIC COMFORTER



Now one can sleep in cozy, automatically-controlled warmth without weight. Selected warmth over the entire area of a double bed, with generous length for tuck-in and enough width for snug protection. Rayon satin cover is offered in Rose, Blue and Green. Non-slipping rayon underside holds the Comforter in place on bed. Inside warming sheet easily removable so that satin cover can be dry-cleaned. Smartly styled control box — "off" and "on" switch. Neon light in control box — glows when comforter is on. Small, accurately calibrated thermostats prevent over-heating. Synthetic rubber-covered, 9-foot cord from Comforter to control. 6-foot cord from control to wall outlet. Operates on a-c only.

Cat. No.	Watts	Volts	Std. Pkg.	Price Each
EC-61	140	115	1	\$49.85

No. ES-71 ELECTRIC SHEET



Provides modern, low-cost, automatically-controlled warmth without weight. Can be used with regular top bed sheet, and blanket or comforter as top cover. Automatic Watchman Control maintains selected warmth regardless of room temperature change. Full 54- by 70-inch heated area, covers double bed. 11-inch non-heated area at foot allows for tuck-in, 3-inch non-heated area to top. Pull type switch with visual indicator. Warmth selector knob. Moistureproof. Accurately calibrated thermostats give positive protection against over-heating. 9-foot synthetic rubber-covered cord from control to Electric Sheet easily detachable. 6-foot cord from control to wall plug. 18-inch lead cord permanently attached to Electric Sheet for connection to Control cord. Operates on a-c only.

Cat. No.	Watts	Volts	Std. Pkg.	Price Each
ES-71	140	115	1	\$24.95

SMITH-GATES ELECTRIC PRODUCTS

SG FUSED ELECTRIC THERMOTAPE



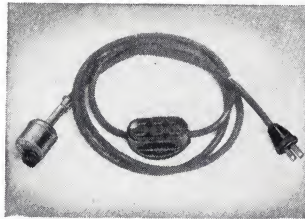
Protects water pipes, keeps them in use and safe from freezing. Available in several convenient lengths, all for plug-in use on 110 volt service. A 20-foot length means twenty feet of protection and no return wire required. Ther-

motape is easy to use and saves many dollars on frozen water pipes. The Fused Thermotape is 100 per cent SAFE because each conductor is made of fusible wire, encased in a strong glass braiding. Comes ready to use — no extras required.

Cat. No.	Length with Plug	Watts	Price Each
TTF10	10 feet	70	\$3.45
TTF20	20 feet	140	4.95
TTF40	40 feet	280	7.95
TTF60	60 feet	420	10.95

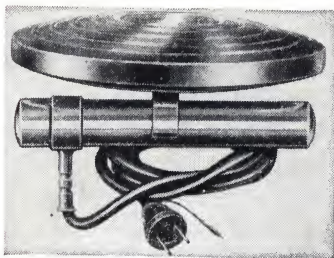
No. TSA935 SG ADJUSTAT

Adjustat gives automatic control when used with Thermotape within the range of 20° to 80° F. by simply turning the control knob for the desired temperature wanted. Furnished complete with 6-ft. Neoprene cord, attachment plug and a plastic triple outlet box for connecting one to three lengths of Thermotape (will maintain 3 Thermotape installations at a constant temperature). Packed separately in display box. Standard package, 10 units. Shipping weight 8 lbs. 900 watts, 100 VAC.



Cat. No. TSA935 Adjustat.....price each \$4.65

FLOATING STOCK TANK WATER WARMER



Keeps water from freezing. Easy to use — it's automatic. Just place the float (with heating unit down) on surface of water in any size tank, plug the lead cord into a 110-volt receptacle and the

water will be kept open so stock can drink even when temperatures drop below zero. This unit places 500 watts of heat just below the surface of water where it will be most effective with the least use of electricity. Automatic thermostat control assures lowest operating cost. Equipped with 12 feet of anchor-sealed (water proof) Neoprene cord and plug with grounding connection. The heating unit is attached to the bottom of a heavy-gauge, nickel-plated copper float by spring clip — can be removed from the float for use as an immersion heater. 500 watts. 110 volts A.C.

Packed separately in display carton. Standard package, 5 units. Shipping weight, 13 lbs.

Cat. No. FWVG50040 Water

Warmerprice each \$10.95*

*Excise Tax (if any) Extra.

ANACONDA SOLDER FITTINGS

Anaconda fittings have smooth inside surfaces and deep cups with adequate shoulders to provide sound, strong solder bonds. The design of these solder fittings is based on the natural law of capillary attraction.

Wrought copper fittings are made in sizes from 1/8 inch to 4 inches inclusive. They are uniformly true to size, of one piece seamless construction and are free from porosity. They are available in elbows, tees, couplings and unions, and a complete range of reduction and adapter combinations.

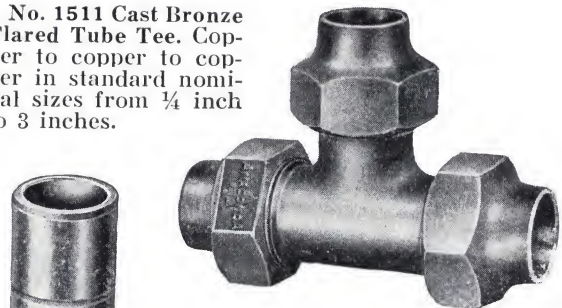
Cast bronze fittings are available in sizes from 1/8 to 12 inches, in a complete line of elbows, tees, couplings and unions, including all standard reduction and adapter combinations. Cast bronze drainage fittings are also available in sizes from 1 1/4 inch to 8 inches in elbows, tees, couplings, adapters, ferrules, Y-branches, double T-Y's, etc.

The complete line of Anaconda Cast Bronze flared tube fittings for use with soft Anaconda Copper tubes includes elbows, tees, couplings, unions and a full range of reduction and adapter combinations of sizes from 1/8 to 2 inches inclusive.



No. 1726 Cast Bronze Stop and Waste Valve. Copper to copper in standard nominal sizes from 1/8 to 1 inch.

No. 1511 Cast Bronze Flared Tube Tee. Copper to copper to copper in standard nominal sizes from 1/4 inch to 3 inches.



No. 1701 Bronze Solder Coupling. Copper to copper in standard nominal sizes from 1/2 inch to 12 inches.

No. 1607 Wrought Copper 90° Elbow. Copper to copper in standard nominal sizes from 1/4 inch to 4 inches.



ANACONDA COPPER TUBES



Soil, waste and vent lines of copper make good sense — and good business, too. Your own experience with copper tubes for hot and cold water lines tell you why their use for sanitary drainage systems is a natural and logical development.

You'll find that copper tubes mean: (1) Shop fabricated sub-assemblies save time on the job. (2) Long, straight lengths mean fewer connections. (3) Total cost of job is often less than with other materials. (4) Customer satisfaction — provides rust-proof drainage system — reduces possibility of stoppage because the smooth inside surface of copper tubes facilitates quick drainage.

Everything you need for an "All Copper" installation in stock for immediate delivery. Anaconda Type "M" Copper Water Tubes for soil, waste and vent lines — Anaconda Type "K" Copper Water Tubes for underground and interior service — Anaconda Type "L" Copper Water Tubes for interior service — and a complete line of Anaconda Copper Tube Fittings and Accessories.

Anaconda Copper Tubes are made in three wall thicknesses, and in all standard plumbing sizes, for threadless assembly with either solder type or flared tube type fittings. Sizes and weights are given in the accompanying table.

Type K tube is the heaviest and most durable and is offered for all types of water service. It is furnished hard in 20-foot straight lengths and soft in 60 and 100-foot coils.

Type L tube has a slightly thinner wall and is used chiefly for inside plumbing. It is manufactured hard in 20-foot straight lengths and soft in 60 and 100-foot coils.

Type M tube is the lightest of the three and is offered only in the larger sizes used for soil, waste and vent lines. Type M tube is made in straight lengths only from ½ inch to 12 inches for assembly with Anaconda Cast Bronze Solder Drainage Fittings.

Nominal Size Inches	Outside Diameter Inches	Inside Diameter Inches			Wall Thickness Inches			†Permissible Variation of Mean Outside Diameter		‡Pounds Per Lineal Foot		
								Types K-L-M				
		Types* K-L-M	Type K	Type L	Type M	Type K	Type L	Type M	Annealed	Hard Drawn	Type K	Type L	Type M
3/8	.500	.402	.430	.049	.035			.0025	.001	.269	.198	
1/2	.625	.527	.545	.049	.040			.0025	.001	.344	.285	
5/8	.750	.652	.666	.049	.042			.0025	.001	.418	.362	
3/4	.875	.745	.785	.065	.045			.003	.001	.641	.455	
1	1.125	.995	1.025	.065	.050			.0035	.0015	.839	.655	
1 1/4	1.375	1.245	1.265	1.291	.065	.055	.042	.004	.0015	1.04	.884	.682
1 1/2	1.625	1.481	1.505	1.527	.072	.060	.049	.0045	.002	1.36	1.14	.940
2	2.125	1.959	1.985	2.009	.083	.070	.058	.005	.002	2.06	1.75	1.46
2 1/2	2.625	2.435	2.465	2.495	.095	.080	.065	.005	.002	2.93	2.48	2.03
3	3.125	2.907	2.945	2.981	.109	.090	.072	.005	.002	4.00	3.33	2.68
3 1/2	3.625	3.385	3.425	3.459	.120	.100	.083	.005	.002	5.12	4.29	3.58
4	4.125	3.857	3.905	3.935	.134	.110	.095	.005	.002	6.51	5.38	4.66
5	5.125	4.805	4.875	4.907	.160	.125	.109	.005	.002	9.67	7.61	6.66
6	6.125	5.741	5.845	5.881	.192	.140	.122	.005	.002	13.9	10.2	8.92
8	8.125	7.583	7.725	7.785	.271	.200	.170	.006	+.002 - .004	25.9	19.3	16.5
10	10.125	9.449	9.625	9.701	.338	.250	.212	.008	+.002 - .006	40.3	30.1	25.6
12	12.125	11.315	11.565	11.617	.405	.280	.254	.008	+.002 - .006	57.8	40.4	36.7

‡Slight variations from these weights must be expected in practice.

†All tolerances are plus and minus except as otherwise indicated.

*Type K Tube — For Underground and Interior Service.

Type L Tube — For Interior Service.

Type M Tube — For Soil, Waste and Vent Service.

GRAPHICAL ELECTRICAL SYMBOLS FOR ARCHITECTURAL PLANS

Ceiling Wall

GENERAL OUTLETS

- —○ Outlet.
- ⓑ —ⓑ Blanked Outlet.
- ⓓ —ⓓ Drop Cord.
- ⓔ —ⓔ Electrical Outlet; for use only when circle used alone might be confused with columns, plumbing, symbols, etc.
- ⓕ —ⓕ Fan Outlet.
- ⓙ —ⓙ Junction Box.
- ⓛ —ⓛ Lamp Holder.
- ⓛ_{PS} —ⓛ_{PS} Lamp Holder with Pull Switch.
- Ⓢ —Ⓢ Pull Switch.
- Ⓥ —Ⓥ Outlet for Vapor Discharge Lamp.
- Ⓧ —Ⓧ Exit Light Outlet.
- Ⓒ —Ⓒ Clock Outlet. (Specify Voltage.)

CONVENIENCE OUTLETS

- Ⓢ Duplex Convenience Outlets.
- Ⓢ_{1,3} Convenience Outlet other than Duplex. 1=Single, 3=Triplex, etc.
- Ⓢ_{WP} Weatherproof Convenience Outlet.
- Ⓢ_R Range Outlet.
- Ⓢ_S Switch and Convenience Outlet.
- Ⓢ_R Radio and Convenience Outlet.
- Ⓢ_{SP} Special Purpose Outlet. (Des. in Spec.).
- Ⓢ_F Floor Outlet.

SWITCH OUTLETS

- Ⓢ Single Pole Switch.
- Ⓢ₂ Double Pole Switch.
- Ⓢ₃ Three Way Switch.
- Ⓢ₄ Four Way Switch.
- Ⓢ_D Automatic Door Switch.
- Ⓢ_E Electrolier Switch.
- Ⓢ_K Key Operated Switch.
- Ⓢ_P Switch and Pilot Lamp.
- Ⓢ_{CB} Circuit Breaker.
- Ⓢ_{WCB} Weatherproof Circuit Breaker.
- Ⓢ_{MC} Momentary Contact Switch.
- Ⓢ_{RC} Remote Control Switch.
- Ⓢ_{WP} Weatherproof Switch.
- Ⓢ_F Fused Switch.
- Ⓢ_{WF} Weatherproof Fused Switch.

SPECIAL OUTLETS

- _{a,b,c,etc}
- Ⓢ_{a,b,c,etc}
- Ⓢ_{a,b,c,etc}

Any Standard Symbol as given above with the addition of a lower case subscript letter may be used to designate some special variation of Standard Equipment of particular interest in a specific set of Architectural Plans.

When used they must be listed in the Key of Symbols on each drawing and if necessary further described in the specifications.

PANELS, CIRCUITS, AND MISCELLANEOUS

- Lighting Panel.
- ▨ Power Panel.
- Branch Circuit; Concealed in Ceiling or Wall.
- Branch Circuit; Concealed in Floor.
- Branch Circuit; Exposed.
- Home Run to Panel Board. Indicate number of Circuits by number of arrows.
Note: Any circuit without further designation indicates a two-wire circuit. For a greater number of wires indicate as follows:
/// (3 wires) /// (4 wires), etc.
- Feeder. Note: Use heavy lines and designate by number corresponding to listing in Feeder Schedule.
- Underfloor Duct and Junction Box. Triple System. Note: For double or single systems eliminate one or two lines. This symbol is equally adaptable to auxiliary system layouts.

- ⓖ Generator.
- Ⓜ Motor.
- ⓔ Instrument.
- ⓔ Power Transformer. (Or draw to scale.)
- ⓔ Controller.
- ⓔ Isolating Switch.

AUXILIARY SYSTEMS

- ⓔ Push Button.
- ⓔ Buzzer.
- ⓔ Bell.
- ⓔ Annunciator.
- ⓔ Outside Telephone.
- ⓔ Interconnecting Telephone.
- ⓔ Telephone Switchboard.
- ⓔ Bell Ringing Transformer.
- ⓔ Electric Door Opener.
- ⓔ Fire Alarm Bell.
- ⓔ Fire Alarm Station.
- ⓔ City Fire Alarm Station.
- ⓔ Fire Alarm Central Station.
- ⓔ Automatic Fire Alarm Device.
- ⓔ Watchman's Station.
- ⓔ Watchman's Central Station.
- ⓔ Horn.
- ⓔ Nurse's Signal Plug.
- ⓔ Maid's Signal Plug.
- ⓔ Radio Outlet.
- ⓔ Signal Central Station.
- ⓔ Interconnection Box.
- ⓔ Battery.

Auxiliary System Circuits.
Note: Any line without further designation indicates a 2-Wire System. For a greater number of wires designate with numerals in manner similar to —12—No. 18W-¼" C., or designate by number corresponding to listing in Schedule.

Special Auxiliary Outlets.
Subscription letters refer to notes on plans or detailed description in specifications.

- _{a,b,c}

(Symbols in accordance with American Standards Association Standard ASA Z32.9-1943.)

USEFUL INFORMATION

MOTOR WIRING AND FUSING DATA

Adapted from 1947 National Electrical Code

Single Phase A.C.—115 Volts							Single Phase A.C.—230 Volts						
H.P. of Motor	Current Rating Amperes	Minimum Size Wire AWG or MCM		Conduit Size		Maximum Running Fuse Amperes	Current Rating Amperes	Minimum Size Wire AWG or MCM		Conduit Size		Maximum Running Fuse Amperes	
		Type R or T	Type RH	Type R or T	Type RH			Type R or T	Type RH	Type R or T	Type RH		
1/2	7.4	14	14	1/2	1/2	10	3.7	14	14	1/2	1/2	6	
3/4	10.2	14	14	1/2	1/2	15	5.1	14	14	1/2	1/2	8	
1	13	12	12	1/2	1/2	20	6.5	14	14	1/2	1/2	10	
1 1/2	18.4	10	10	3/4	3/4	25	9.2	14	14	1/2	1/2	12	
2	24	10	10	3/4	3/4	30	12	14	14	1/2	1/2	15	
3	34	6	8	1	3/4	45	17	10	10	3/4	3/4	25	
5	56	4	4	1 1/4	1 1/4	70	28	8	8	3/4	3/4	35	
7 1/2	80	1	3	1 1/2	1 1/4	100	40	6	6	1	1	50	
10	100	1/0	1	1 1/2	1 1/2	125	50	4	6	1 1/4	1	60	
Three Phase Induction Motor—220 Volts							Three Phase Induction Motor—440 Volts						
1/2	2	14	14	1/2	1/2	3	1	14	14	1/2	1/2	2	
3/4	2.8	14	14	1/2	1/2	4	1.4	14	14	1/2	1/2	2	
1	3.5	14	14	1/2	1/2	4	1.8	14	14	1/2	1/2	3	
1 1/2	5	14	14	1/2	1/2	8	2.5	14	14	1/2	1/2	4	
2	6.5	14	14	1/2	1/2	8	3.3	14	14	1/2	1/2	4	
3	9	14	14	1/2	1/2	12	4.5	14	14	1/2	1/2	6	
5	15	12	12	1/2	1/2	20	7.5	14	14	1/2	1/2	10	
7 1/2	22	10	10	3/4	3/4	30	11	14	14	1/2	1/2	15	
10	27	8	8	3/4	3/4	35	14	12	12	1/2	1/2	20	
15	40	6	6	1	1	50	20	10	10	3/4	3/4	25	
20	52	4	6	1 1/4	1	70	26	8	8	3/4	3/4	35	
25	64	3	4	1 1/4	1 1/4	80	32	8	8	3/4	3/4	40	
30	78	1	3	1 1/2	1 1/4	100	39	6	6	1	1	50	
40	104	2/0	1	2	1 1/2	125	52	4	6	1 1/4	1	70	
50	125	3/0	2/0	2	2	175	63	3	4	1 1/4	1 1/4	80	
60	150	4/0	3/0	2 1/2	2	200	75	2	3	1 1/4	1 1/4	100	
75	185	300	4/0	2 1/2	2 1/2	250	93	1/0	1	2	1 1/2	125	
100	246	500	350	3	3	300	123	3/0	2/0	2	2	150	
125	310	750	600	3 1/2	3 1/2	400	155	4/0	3/0	2 1/2	2	200	
150	360	1000	700	4	3 1/2	450	180	300	4/0	2 1/2	2 1/2	225	
200	480	-----	1500	-----	5	600	240	500	350	3	3	300	
D.C.—115 Volts							D.C.—230 Volts						
1/2	4.6	14	14	1/2	1/2	6	2.3	14	14	1/2	1/2	3	
3/4	6.6	14	14	1/2	1/2	10	3.3	14	14	1/2	1/2	4	
1	8.6	14	14	1/2	1/2	12	4.3	14	14	1/2	1/2	6	
1 1/2	12.6	12	12	1/2	1/2	15	6.3	14	14	1/2	1/2	8	
2	16.4	10	10	3/4	3/4	20	8.2	14	14	1/2	1/2	12	
3	24	10	10	3/4	3/4	30	12	14	14	1/2	1/2	15	
5	40	6	6	1	1	50	20	10	10	3/4	3/4	25	
7 1/2	58	3	4	1 1/4	1 1/4	70	29	8	8	3/4	3/4	40	
10	76	2	3	1 1/4	1 1/4	100	38	6	6	1	1	50	
15	112	2/0	1/0	2	1 1/2	150	56	4	4	1 1/4	1 1/4	70	
20	148	4/0	3/0	2	2	200	74	2	3	1 1/4	1 1/4	90	
25	184	300	4/0	2 1/2	2	250	92	1/0	2	1 1/2	1 1/4	125	
30	220	400	300	3	2 1/2	300	110	2/0	1/0	2	1 1/2	150	
40	292	700	500	3 1/2	3	400	146	4/0	3/0	2	2	200	
50	360	1000	700	4	3 1/2	450	180	300	4/0	2 1/2	2	225	

Conduit size based on three conductors in one conduit for three phase A.C. motors and on two conductors in one conduit for direct current and single phase A.C. motors.

NATIONAL ELECTRICAL CODE APPLICATION DATA

TO DETERMINE SWITCH, FUSE OR WIRE SIZE for motor circuits, determine terminal ampere rating of motor either (a) from motor nameplate or (b) from tables on this page.

MOTOR TERMINAL AMPERES AT FULL LOAD†

Average Values for All Speeds and Frequencies

HP.	SINGLE-PHASE A-C			POLYPHASE A-C (INDUCTION TYPE)				SQUIRREL-CAGE AND WOUND ROTOR				DIRECT CURRENT		
	115 VOLTS	230 VOLTS*	440 VOLTS	110 VOLTS		220 VOLTS‡		440 VOLTS		550 VOLTS		115 VOLTS	230 VOLTS	550 VOLTS
				3-PHASE	2-PHASE 4-WIRE‡	3-PHASE	2-PHASE 4-WIRE‡	3-PHASE	2-PHASE 4-WIRE‡	3-PHASE	2-PHASE 4-WIRE‡			
1/8*	3.2	1.6	...	...	...	...	...	...	...	...	...	...	...	...
1/4*	4.6	2.3	...	...	...	...	...	...	...	...	...	...	...	...
1/2*	7.4	3.7	...	4	4	2	2	1	1	.8	.8	4.6	2.3	...
3/4*	10.2	5.1	...	5.6	4.8	2.8	2.4	1.4	1.2	1.1	1	6.6	3.3	1.4
1*	13	6.5	...	7	6.4	3.5	3.2	1.8	1.6	1.4	1.3	8.6	4.3	1.8
1 1/2	18.4	9.2	...	10	8.8	5	4.4	2.5	2.2	2	1.8	12.6	6.3	2.6
2	24	12	...	13	11.2	6.5	5.6	3.3	2.8	2.6	2.2	16.4	8.2	3.4
3	34	17	...	...	...	9	8	4.5	4	3.2	2.4	24	12	5
5	56	28	...	...	...	15	13	7.5	7	6	6	40	20	8.3
7 1/2	80	40	21	...	...	22	19	11	9	9	8	58	29	12
10	100	50	26	...	...	27	24	14	12	11	10	76	38	16
15	...	...	...	...	...	40	34	20	17	16	14	112	56	23
20	...	...	...	...	...	52	45	26	23	21	18	148	74	31
25	...	...	...	...	...	64	55	32	28	26	22	184	92	38
30	...	...	...	...	...	78	67	39	34	31	27	220	110	46
40	...	...	...	...	...	104	88	52	44	41	35	292	146	61
50	...	...	...	...	...	125	108	63	54	50	43	360	180	75
60	...	...	...	...	...	150	129	75	65	60	52	430	215	90
75	...	...	...	...	...	185	158	93	79	74	63	536	268	111

* For running protection of motors of 1 horsepower or less, see Section 4322 N.E.C.

† Current in common conductor of 2-phase, 3-wire system will be 1.41 times value given.

‡ For full-load currents of 208 and 200-volt motors, increase the corresponding 220-volt motor full load current by 6 and 10 percent respectively.

§ For full-load currents of 208 and 200-volt motors, increase the corresponding 230-volt motor full load current by 10 and 15 percent respectively.

† These values of full-load current are for motors running at speeds usual for belted motors and motors with normal torque characteristics. Motors built for especially low speeds or high torques may require more running current, in which case the nameplate current rating should be used.

ALLOWABLE CURRENT-CARRYING CAPACITIES OF CONDUCTORS IN AMPERES

Not More Than Three Conductors in Raceway or Cable
(Based on Room Temperature of 30° C, 86° F)

SIZE AWG MCM	CM TABLE 18 NEC	(1) RUBBER		(2)	(3)	(4)	(5)	(6)
		TYPES R, RW RU-14-6 T & TW- (Thermo- plastic) 14-4/0	TYPE RH	TYPES TA, V & AVB	TYPES AVA AVL	TYPES AI-14-8 & AIA	TYPES A-14-8 & AA	
14	4,107	15	15	25	30	30	30	
12	6,530	20	20	30	35	40	40	
10	10,380	30	30	40	45	50	55	
8	16,510	40	45	50	60	65	70	
6	26,250	55	65	70	80	85	95	
4	41,740	70	85	90	105	115	120	
3	52,640	80	100	105	120	130	145	
2	66,370	95	115	120	135	145	165	
1	83,690	110	130	140	160	170	190	
0	105,500	125	150	155	190	200	225	
00	133,100	145	175	185	215	230	250	
000	167,800	165	200	210	245	265	285	
0000	211,600	195	230	235	275	310	340	
250	250,000	215	255	270	315	335	...	
300	300,000	240	285	300	345	380	...	
350	350,000	260	310	325	390	420	...	
400	400,000	280	335	360	420	450	...	
500	500,000	320	380	405	470	500	...	
600	600,000	355	420	455	525	545	...	
700	700,000	385	460	490	560	600	...	
750	750,000	400	475	500	580	620	...	
800	800,000	410	490	515	600	640	...	
900	900,000	435	520	555	...	...	...
1,000	1,000,000	455	545	585	680	730	...	
1,250	1,250,000	495	590	645	...	...	...
1,500	1,500,000	520	625	700	785	...	...
1,750	1,750,000	545	650	735	...	...	...
2,000	2,000,000	560	665	775	840	...	...

MORE THAN THREE CONDUCTORS IN A RACEWAY OR CABLE. The table gives the allowable current-carrying capacity for not more than three conductors in a raceway or cable. If the number of conductors in a raceway or cable is from 4 to 6, the allowable current-carrying capacity of each conductor shall be reduced to 80 per cent of the value in the table. If the number of conductors in a raceway or cable is from 7 to 9, the allowable current-carrying capacity of each conductor shall be reduced to 70 per cent of the values in the table.

CORRECTION FACTOR FOR ROOM TEMPERATURES OVER 30°C

DEGREES		COLUMN NUMBER*					
C	F	(1)	(2)	(3)	(4)	(5)	(6)
40	104	.82	.88	.90	.94	.95	...
45	113	.71	.82	.85	.90	.92	...
50	122	.58	.75	.80	.87	.89	...
55	131	.41	.67	.74	.83	.86	...
60	140	...	.58	.67	.79	.83	.91
70	158	...	.35	.52	.71	.76	.87
75	167	...	...	.43	.66	.72	.86
80	176	...	...	.30	.61	.69	.84
90	194	...	...	...	.50	.61	.80
100	212	...	...	...	...	.51	.77
120	248	...	...	...	...	...	.69
140	284	...	...	...	...	...	.59

* Column numbers refer to column numbers in Wire Table (i. e., Col. 2 is for Type RH Wire.)

NATIONAL ELECTRICAL CODE APPLICATION DATA

TABLE FOR SELECTING SWITCH, CIRCUIT BREAKER,
WIRE AND FUSE SIZES FOR MOTOR BRANCH CIRCUITS(Adapted from 1947 N. E. Code Chapter 10. Obtain proper terminal
ampere rating of motor from horsepower.)

FULL LOAD CURRENT RATING OF MOTOR	TO SELECT PROPER SIZE FUSE, SAFETY SWITCH OR CIRCUIT BREAKER FOR MOTOR CIRCUIT										WIRE SIZE (From 1947 Code, Chapter 10)		
	FUSIBLE SWITCH OR ABI BREAKER SIZE FOR CIRCUIT PROTECTION COLUMNS 4, 6 AND 8 RECOMMENDED RATING OF BRANCH CIRCUIT BREAKER AMPERES BASED ON 20 SECONDS ACCELERATING TIME†										MINIMUM SIZE CONDUCTOR IN RACEWAYS AWG AND MCM		
	SINGLE PHASE, SQUIRREL- CAGE AND SYNCHRONOUS FULL-VOLTAGE, REACTOR AND RESISTOR STARTING			SQUIRREL-CAGE AND SYN- CHRONOUS AUTO-TRANS- FORMER STARTING, HIGH- REACTANCE SQUIRREL-CAGE WITHOUT CODE MARKING			A-C WOUND ROTOR AND DIRECT CURRENT						
	1	2	3	4		5	6		7	8		9	10
AMP	NON-FUSIBLE SWITCH SIZE AMP	MAX. ALLOW- ABLE RATING OF BRANCH CIRCUIT FUSES AMP	FUSIBLE SWITCH AMP	CIRCUIT BREAKER AMP	MAX. ALLOW- ABLE RATING OF BRANCH CIRCUIT FUSES AMP	FUSIBLE SWITCH AMP	CIRCUIT BREAKER AMP	MAX. ALLOW- ABLE RATING OF BRANCH CIRCUIT FUSES AMP	FUSIBLE SWITCH AMP	CIRCUIT BREAKER AMP	TYPES R, RW, RU, T, AND TW	TYPE RH	
1	Non-fusible Safety Switches for Motor Circuits should be applied according to the 1947 National Electrical Code, Sections 4401 to 4411 inclusive, or to a later edition	15	30	15	15	30	15	15	30	15	14	14	
2		15	30	15	15	30	15	15	30	15	14	14	
3		15	30	15	15	30	15	15	30	15	14	14	
4		15	30	15	15	30	15	15	30	15	14	14	
5		20	30	15	15	30	15	15	15	30	15	14	14
6		20	30	15	15	30	15	15	15	30	15	14	14
7		25	30	15	20	30	15	15	15	30	15	14	14
8		25	30	20	20	30	20	20	15	30	15	14	14
9		30	30	20	25	25	30	20	15	30	15	14	14
10		30	30	25	25	25	30	20	15	30	20	14	14
11		35	60	25	25	30	30	25	20	30	20	14	14
12		40	60	25	25	30	30	25	20	30	20	14	14
13		40	60	35	35	35	60	35	20	30	25	12	12
14		45	60	35	35	35	60	35	25	30	25	12	12
15		45	60	35	35	40	60	35	25	30	25	12	12
16		50	60	35	35	40	60	35	25	30	25	12	12
17		60	60	50	50	45	60	35	30	30	35	10	10
18		60	60	50	50	45	60	35	30	30	35	10	10
19		60	60	50	50	50	60	35	30	30	35	10	10
20		60	60	50	50	50	60	35	30	30	35	10	10
22		70	100	50	60	60	60	50	35	60	35	10	10
24		80	100	50	60	60	60	50	40	60	50	10	10
26		80	100	50	70	70	100	50	40	60	50	8	10
28		90	100	50†	70	70	100	50	45	60	50	8	10
30		90	100	50†	70	70	100	50	45	60	50	8	8
32		100	100	70	70	70	100	70	50	60	50	8	8
34		110	200	70	70	70	100	70	60	60	70	6	8
36		110	200	70	70	80	100	70	60	60	70	6	8
38		125	200	70	80	80	100	70	60	60	70	6	6
40		125	200	70	80	80	100	70	60	60	70	6	6
42		125	200	70	90	90	100	70	70	100	70	6	6
44		125	200	70	90	90	100	70	70	100	70	6	6
46		150	200	70	100	100	100	70	70	100	70	4	6
48		150	200	90	100	100	100	90	80	100	90	4	6
50		150	200	90	100	100	100	90	80	100	90	4	6
52		175	200	90	110	200	90	80	80	100	90	4	6
54		175	200	90	110	200	90	90	90	100	90	4	4
56		175	200	90	120	200	90	90	90	100	90	4	4
58		175	200	90	120	200	90	90	90	100	90	3	4
60		200	200	90	120	200	90	90	90	100	90	3	4
62		200	200	100	125	200	100	100	100	100	100	3	4
64		200	200	100	150	150	200	100	100	100	100	3	4
66		200	200	100	150	150	200	100	100	100	100	2	4
68		225	400	125	150	200	125	125	110	200	125	2	4
70		225	400	125	150	200	125	125	110	200	125	2	3
72		225	400	125	150	200	125	125	110	200	125	2	3
74		225	400	125	150	200	125	125	125	200	125	2	3
76		250	400	125	175	200	125	125	125	200	125	2	3
78		250	400	125	175	200	125	125	125	200	125	1	3

† Applications having unusually long starting period or frequent starting refer to Works for proper size breaker. High or low ambients affect rating of breakers.

‡ Does not allow more than 8 seconds starting time.

NATIONAL ELECTRICAL CODE APPLICATION DATA

TABLE FOR SELECTING SWITCH, CIRCUIT BREAKER,
WIRE AND FUSE SIZES FOR MOTOR BRANCH CIRCUITS

(Adapted from 1947 N. E. Code Chapter 10. Obtain proper terminal
ampere rating of motor from horsepower.)

FULL LOAD CURRENT RATING OF MOTOR	NON-FUSIBLE SWITCH SIZE	TO SELECT PROPER SIZE FUSE, SAFETY SWITCH OR CIRCUIT BREAKER FOR MOTOR CIRCUIT									WIRE SIZE (From 1947 Code, Chapter 10)	
		FUSIBLE SWITCH OR ABI BREAKER SIZE FOR CIRCUIT PROTECTION COLUMNS 4, 6 AND 8 RECOMMENDED RATING OF BRANCH CIRCUIT BREAKER AMPERES BASED ON 20 SECONDS ACCELERATING TIME†									MINIMUM SIZE CONDUCTOR IN RACEWAYS AWG AND MCM	
		SINGLE PHASE, SQUIRREL- CAGE AND SYNCHRONOUS FULL-VOLTAGE, REACTOR AND RESISTOR STARTING.			SQUIRREL-CAGE AND SYN- CHRONOUS AUTO-TRANS- FORMER STARTING. HIGH- REACTANCE SQUIRREL-CAGE			A-C WOUND ROTOR AND DIRECT CURRENT			TYPES R, RW, RU, T, AND TW	TYPE RH
		3	4		5	6		7	8			
1	2	MAX. ALLOW- ABLE RATING OF BRANCH CIRCUIT FUSES	FUSIBLE SWITCH	CIRCUIT BREAKER	MAX. ALLOW- ABLE RATING OF BRANCH CIRCUIT FUSES	FUSIBLE SWITCH	CIRCUIT BREAKER	MAX. ALLOW- ABLE RATING OF BRANCH CIRCUIT FUSES	FUSIBLE SWITCH	CIRCUIT BREAKER		
AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP		
80	Non-fusible Safety Switches for Motor Circuits should be applied according to the 1947 National Electrical Code, Sections 4401 to 4411 inclusive, or to a later edition.	250	400	125	175	200	125	125	200	125	1	3
82		250	400	125	175	200	125	125	200	125	1	2
84		250	400	150	175	200	150	150	200	150	1	2
86		300	400	150	175	200	150	150	200	150	1	2
88		300	400	150	200	200	150	150	200	150	1	2
90		300	400	150	200	200	150	150	200	150	0	2
92		300	400	150	200	200	150	150	200	150	0	2
94		300	400	150	200	200	150	150	200	150	0	1
96		300	400	150	200	200	150	150	200	150	0	1
98		300	400	150	200	200	150	150	200	150	0	1
100		300	400	150	200	200	150	150	200	150	0	1
105		350	400	175	225	400	175	175	200	175	00	1
110		350	400	175	225	400	175	175	200	175	00	0
115		350	400	175	250	400	175	175	200	175	00	0
120		400	400	200	250	400	200	200	200	200	000	0
125		400	400	200	250	400	200	200	200	200	000	00
130		400	400	200	300	400	200	200	200	200	000	00
135		450	600	200	300	400	200	225	400	200	0000	00
140		450	600	225	300	400	225	225	400	225	0000	00
145		450	600	225	300	400	225	225	400	225	0000	000
150		450	600	225	300	400	225	225	400	225	0000	000
155		500	600	275	350	400	275	250	400	275	0000	000
160		500	600	275	350	400	275	250	400	275	250	000
165		500	600	275	350	400	275	250	400	275	250	0000
170		500	600	275	350	400	275	300	400	275	250	0000
175		600	600	275	350	400	275	300	400	275	300	0000
180		600	600	275	400	400	275	300	400	275	300	0000
185		600	600	300	400	400	300	300	400	300	300	0000
190		600	600	300	400	400	300	300	400	300	300	250
195		600	600	300	400	400	300	300	400	300	350	250
200		600	600	300	400	400	300	300	400	300	350	250
210					450	600	325	350	400	325	400	300
220					450	600	325	350	400	325	400	300
230					500	600	400	350	400	400	500	300
240					500	600	400	400	400	400	500	350
250					500	600	400	400	400	400	500	350
260					600	600	400	400	400	400	600	400
270					600	600	450	450	600	450	600	400
280					600	600	450	450	600	450	600	500
290					600	600	450	450	600	450	700	500
300					600	600	450	450	600	450	700	500
320					600	600	450	500	600	500	750	600
340								600	600	550	900	600
360								600	600	550	1000	700
380								600	600	600	1250	750
400								600	600	600	1500	900
420											1750	1000
440											2000	1250
460											....	1250
480											....	1500
500											....	1500

† Applications having unusually long starting period or frequent starting refer to Works for proper size breaker. High or low ambients affect rating of breakers.

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